

CITY OF SOMERVILLE

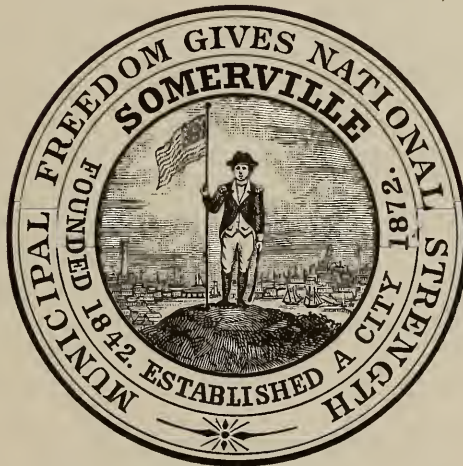
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With Mayor's Inaugural Address

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INAUGURAL ADDRESS

Delivered by

HON. GEORGE O. PROCTOR, MAYOR,

January 1, 1900.

GENTLEMEN OF THE BOARD OF ALDERMEN:—

Another year has passed into history, and we are assembled here again to organize for the commencement of the duties that have been entrusted to our care. We are to begin these duties under an entirely new method. The change will require a good deal of thought and consideration, and its success will depend largely upon a wise and careful understanding of its provisions and requirements. Upon you will be the responsibility of laying out the work to be performed, and the executive department will have the responsibility of seeing that the work which you originate is faithfully completed. You have all had valuable business experience, and the larger part of your number has had experience in municipal affairs that will be of great value to you. You will find efficient and faithful officials at City Hall, who will give you any information relating to the work of the departments that you may require, and who will be ready at all times to render every assistance required in your duties. I have prepared a summary report of the work performed during the year, with brief statements of the conditions of the most important departments at the present time, which I will now submit to your consideration, the first and most important of which is that relating to the financial condition of the city:—

The City's Finances.

FUNDED DEBT.—The funded debt of the city January 1, 1899, was as follows:—

Funded Debt, City Loan	. . . . .	\$1,044,000 00
Funded Debt, Sewer Loan	166,000 00
Funded Debt, Paving Loan	70,000 00
Funded Debt, Water Loan	272,000 00
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Total Funded Debt	\$1,552,000 00

The debt was increased during the year by appropriations made by the City Council as follows:—

Schoolhouse, Forster, improvement	\$35,000 00
Schoolhouse, Highland, sanitary improvement .	5,000 00
Public Library, addition	15,000 00
Public Grounds, Lincoln Park	10,000 00
Powder House Boulevard	10,000 00
Fire Department, Fire Station, Clarendon Hill,	4,000 00
Fire Department, Fire Station No. 1	1,000 00
Highways, Paving Washington street, Tufts street to Boston line, northerly side	10,000 00
Highways, Paving Davis square	5,000 00
Renewals of Funded Debt	15,000 00

Amount borrowed during the year \$110,000 00

The debt was reduced during the year by payments as follows:—

Funded Debt, City Loan	\$124,000 00
Funded Debt, Sewer Loan	8,000 00
Funded Debt, Paving Loan	5,000 00
Funded Debt, Water Loan	32,500 00

Amount paid during the year \$169,500 00

Leaving the funded debt of the city January 1, 1900, \$1,492,500 (a reduction of \$59,500 from the previous year), classified as follows:—

City Loan Bonds bearing interest at 4 per cent.	\$917,000 00
City Loan Bonds bearing interest at $4\frac{1}{2}$ per cent.	113,000 00
City Loan Sewer Bonds bearing interest at 4 per cent.	146,000 00
City Loan Sewer Bonds bearing interest at $4\frac{1}{2}$ per cent.	12,000 00
City Loan Paving Bonds bearing interest at 4 per cent.	65,000 00
Water Loan Bonds bearing interest at 4 per cent.	217,000 00
Water Loan Bonds bearing interest at 5 per cent.	12,500 00
Water Loan Bonds bearing interest at $5\frac{1}{2}$ per cent.	10,000 00

Total Funded Debt January 1, 1900 . . . \$1,492,500 00

The foregoing amount represents the net indebtedness of the city, the unfunded liabilities for temporary loans, etc., being equaled by its assets, which consist of uncollected taxes, sewer and sidewalks assessments, etc.

TAXES. — The assessors' warrant for the tax levy assessed upon the polls and estates of the inhabitants, as of May 1, 1899, was duly submitted to the collector.

The total amount of taxable property was \$51,262,400, and the rate established was \$16.30 on each \$1,000 valuation, as follows:—

Real Estate, valuation	\$46,507,300 00
Personal Estate, valuation . .	4,755,100 00
Total valuation	<u>\$51,262,400 00</u>
At a rate of \$16.30 on each \$1,000 valuation . .	\$835,577 12
Polls, 16,505 at \$2.00	33,010 00
Street Watering	<u>13,993 84</u>
Total amount of tax levy	\$882,580 96

APPROPRIATIONS. — The amount of revenue provided by the tax levy may properly be classified as follows:—

	Rate as- sessed on \$1,000 valu- ation.	Amount.
For Current expenses within the con- trol of the city council	\$6.415	\$328,800 00
Current expenses of departments over which the city council has no control	5.207	267,000 00
Debt requirements	2.809	144,000 00
State and county taxes, Metropoli- tan sewer assessments, and overlay account	1.869	<u>95,777 12</u>
For total amount on a valuation of \$51,262,400 at \$16.30		\$835,577 12
Poll taxes assessed credited to State and County		33,010 00
Street watering in excess of amount ap- propriated		<u>13,993 84</u>
Total amount of tax levy		\$882,580 96

The appropriations to the various accounts were as follows:—

ACCOUNTS WITHIN THE CONTROL OF THE CITY COUNCIL.

Electrical Department	\$6,800 00
Engineering Department	10,000 00
Fire Department	58,000 00
Highways	40,000 00
Indigent Soldiers and Sailors	500 00
Miscellaneous	12,000 00
Police	51,000 00
Police Station Incidentals	2,000 00
Printing and Stationery	7,000 00
Public Grounds	9,000 00
Relief and Burial of Indigent Soldiers and Sailors	12,000 00
Salaries	8,000 00
School Contingent, Janitors' Salaries	19,000 00
School Fuel	12,000 00
Schoolhouse Incidentals	18,000 00
Sidewalks	10,000 00
Street Lights	50,000 00
Watering Streets	<u>3,500 00</u>

Total amount assessed on a valuation of
\$51,262,400 at \$6.415 \$328,800 00

ACCOUNTS OVER WHICH THE CITY COUNCIL HAS NO CONTROL.

	Rate per \$1,000 valuation.	Amount.
Health Department	\$0.468	\$24,000 00
Public Library	0.175	9,000 00
School Contingent	4.135	{ 21,000 00
School Teachers' Salaries		
Support of Poor	0.429	22,000 00
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Total amount assessed on a valuation of \$51,262,400.00 at . . .	\$5.207	\$267,000 00

ACCOUNTS PROVIDING FOR DEBT REQUIREMENTS.

Interest	\$70,000 00
Reduction of Funded Debt	74,000 00
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Total amount assessed on a valuation of \$51,262,400 at \$2.809	\$144,000 00

ACCOUNTS PROVIDING FOR STATE AND COUNTY TAXES, ETC.

State Tax	\$27,075 00	
Deduct one-half of poll taxes, 16,505 00		\$10,570 00
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County Tax	\$48,923 22	
Deduct one-half of poll taxes, 16,505 00		32,418 22
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Metropolitan Sewer Assessment		42,858 09
Non-resident Bank Stock.		995 12
Overlay and Abatement		8,935 69
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Total amount assessed on a valuation of \$51,262,400 at	\$1.869	\$95,777 12

In addition to the above, the following appropriations were made from the various income accounts : —

From the income of the water works : —	
Water Maintenance	\$50,000 00
Water Works Extension	20,000 00
Water Loan Interest	10,882 50
Reduction of Water Loan Debt	32,500 00
Metropolitan Water Assessment	20,975 58
Reduction of Sewer Loan Debt	8,000 00
Interest on Sewer Loan Bonds	6,700 00
Abatements of Water Charges	5,358 75
Sewers Maintenance	8,500 00
Metropolitan Sewer Assessment	42,858 09
Sewers Construction	19,722 75
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	\$225,497 67
Salaries, the amount received of the state for corporation and bank taxes	33,831 26
Police, the amount received of the clerk of the courts for fines, costs, etc.	4,013 00
Public Library, the amount received of the county for dog licenses	2,052 86
Sewers Construction, the balance of excess and deficiency account	16,549 22
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Total	\$281,944 01

The aggregate appropriations from the tax levy and from income were as follows:—

From tax levy	\$882,580 96
From income	281,944 01
Total	<u>\$1 164,524 97</u>

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduc- tion of Funded Debt.
Town	\$593,349	.	.	.
Dec. 31, 1872	643,354	\$50,005	.	.
" 1873	809,354	166,000	.	.
" 1874	1,419,854	610,500	.	.
" 1875	1,571,854	152,000	.	.
" 1876	1,606,854	45,000	*\$55,130 62	\$2 07
" 1877	1,606,854	10,000	*58,828 58	2 30
" 1878	1,596,854	.	61,004 64	2 91
" 1879	1,585,000	.	64,915 76	3 42
" 1880	1,585,000	.	55,739 35	2 72
" 1881	1,585,000	.	58,498 64	2 59
" 1882	1,585,000	.	61,390 59	2 65
" 1883	1,585,000	.	64,479 01	2 70
" 1884	1,585,000	.	67,719 33	2 78
" 1885	†1,525,000	.	71,305 66	2 87
" 1886	1,525,000	.	66,894 23	2 57
" 1887	1,525,000	.	70,252 88	2 56
" 1888	†860,500	25,000	37,000 00	1 28
" 1889	952,500	130,000	38,000 00	1 27
" 1890	1,057,500	150,000	45,000 00	1 38
" 1891	1,045,500	45,000	57,000 00	1 55
" 1892	1,194,500	253,000	104,000 00	2 73
" 1893	1,279,500	222,000	137,000 00	3 27
" 1894	1,344,500	172,000	107,000 00	2 42
" 1895	1,506,500	247,000	85,000 00	1 83
" 1896	1,531,000	177,000	152,500 00	3 11
" 1897	1,548,000	167,000	150,000 00	2 39
" 1898	1,552,000	176,000	172,000 00	3 99
" 1899	1,492,500	110,000	169,500 00	3 30

*\$10,000.00 applied to payment of bonds; balance to sinking funds.

†Sinking fund applied.

YEAR.	VALUATION.	TAX LEVY.	RATE.
1872 . . .	\$22,755,325 . . .	\$274,374 45 . . .	\$13 00
1873 . . .	29,643,100 . . .	389,214 48 . . .	12 80
1874 . . .	30,837,700 . . .	473,235 50 . . .	15 00
1875 . . .	31,317,000 . . .	518,161 40 . . .	16 20
1876 . . .	26,573,400 . . .	504,745 24 . . .	18 60
1877 . . .	25,479,400 . . .	471,789 14 . . .	18 10
1878 . . .	20,976,900 . . .	409,497 10 . . .	19 00
1879 . . .	18,950,100 . . .	352,553 80 . . .	18 00
1880 . . .	20,458,100 . . .	402,927 71 . . .	19 10
1881 . . .	22,569,100 . . .	452,945 45 . . .	19 50
1882 . . .	23,162,200 . . .	425,721 16 . . .	17 80
1883 . . .	23,812,900 . . .	411,645 43 . . .	16 70
1884 . . .	24,331,100 . . .	418,750 26 . . .	16 60
1885 . . .	24,878,400 . . .	428,605 44 . . .	16 60
1886 . . .	26,003,200 . . .	416,987 28 . . .	15 40
1887 . . .	27,471,800 . . .	424,309 14 . . .	14 80
1888 . . .	28,765,400 . . .	421,458 60 . . .	14 00
1889 . . .	30,004,600 . . .	440,324 40 . . .	14 00
1890 . . .	32,557,500 . . .	447,704 00 . . .	14 00
1891 . . .	36,843,400 . . .	539,137 10 . . .	14 00
1892 . . .	38,093,100 . . .	596,357 50 . . .	15 00
1893 . . .	41,873,600 . . .	675,886 80 . . .	15 50
1894 . . .	44,142,900 . . .	721,165 54 . . .	15 70
1895 . . .	46,506,300 . . .	745,609 02 . . .	15 40
1896 . . .	49,070,800 . . .	786,412 32 . . .	15 40
1897 . . .	50,231,000 . . .	913,574 42 . . .	17 30
1898 . . .	50,739,700 . . .	954,187 11 . . .	17 90
1899 . . .	51,262,400 . . .	882,580 96 . . .	16 30

It will be seen by the foregoing tables that matters of much interest and importance have received the careful consideration of the various departments. I am pleased to note the willingness with which my suggestions were adopted, whereby the accumulations on funded debt account were allowed to remain practically undisturbed until sufficient borrowing capacity has accrued to provide for public improvements in the early spring season. I am satisfied that the plan has worked well and has been a decided advantage to the city. One great gain is that it will enable the city to begin the construction of larger public works at an earlier season of the year, and to effect the completion of some of them before the ensuing winter. At the beginning of last year our borrowing capacity was limited to \$119,000; at the present time we are enabled to borrow \$154,000, which amount I trust you will find sufficiently liberal to provide for all needed improvements for the current year.

The prospects held out at the beginning of last year that a smaller tax levy and a corresponding reduction in the tax rate might reasonably be expected have been realized, and the tax rate has been reduced from \$17.90 to \$16.30 on each \$1,000 valuation, a reduction of \$1.60 on \$1,000. Our funded debt has also been reduced \$59,500, and there is a substantial unexpended balance of appropriations to begin the new year. I see no reason why the tax rate should exceed \$16.00 in the future.

The revenue accruing to the highway department from the corporation tax levied by the state on the street railway companies, based on the number of miles of track owned and operated in our city, yielded to that department the sum of \$31,513.95, which was added to the appropriation of \$40,000 that had already been voted. An additional amount of \$29,002.25 will be available at the commencement of the present year, which represents the tax of 1899.

The application of the surplus revenue from the water works towards the payment of interest on sewer loan bonds as it becomes due, the payment of sewer loan bonds as they mature, and the payment of the Metropolitan sewer loan sinking fund, interest, and cost of maintenance as shall be annually assessed by the Commonwealth, has proved to be such a wise expenditure of this income that I heartily indorse the method heretofore adopted, and urgently recommend a continuation of the same method.

I congratulate the members of the Board of Aldermen on the very flourishing condition of the finances of the city generally, and particularly as regards the care which all departments have manifested in keeping within their respective appropriations. Such zeal on the part of those having in charge the expenditure of money is worthy of much commendation, and as many members of the departments referred to have retired from the government, I take this opportunity to extend to them my heartfelt thanks for their faithfulness in this particular branch of the service. The school department has exceeded its appropriation some \$2,000, but no committee of the City Government has exceeded the amount appropriated to its use to any extent.

I am pleased at this time, even before an opportunity has been given to close the books for the year, to say that the prospects are very encouraging for a closing up of our affairs under most favorable circumstances. A substantial amount will be carried over to begin the new year.

Public Schools.

Somerville's public schools are still the pride of the city and the object of admiration of other cities in New England. They occupy at the present time twenty-four buildings, eighteen of which are substantially built of brick, commodious, well ventilated, and well adapted to educational purposes; three others are modern wooden buildings; and the remaining three are old structures, that should be replaced as soon as practicable. During the year our school accommodations have been increased by the construction and furnishing of a six-room building on Washington street, near Dane street, known as the Albion A. Perry School, at a cost of \$26,065, and of a four-room enlargement of the Burns School on Cherry street, at a total expense of \$17,978.

A long-needed improvement in the sanitation of the Highland School was effected during the summer vacation. A two-story structure was erected on the southerly side of the building, containing ample toilet rooms for boys and girls on the lower floor, and on the second floor a toilet room for girls, a teachers' room, a storeroom, and an office for the principal. The cost was \$6,306.

In July last an addition was made to the Forster School lot, and the construction thereon of a six-room building designed for primary schools was begun. This building will not be ready for use until the first of February. The contract price of the building was \$28,336.

During the year the Prescott schoolhouse has been thoroughly renovated, and new floors laid.

Three old school buildings connected with our earliest school history, the Cedar-street, the Harvard, and the Franklin schoolhouses, have been abandoned.

The pressing need of more room in the English High School will early require your attention. At present the building is badly crowded, and all available space for the accommodation of pupils appears to be taken. An addition to the building seems to be inevitable, in order to provide for the influx of pupils next fall and in the succeeding years. Such an addition will take time to complete, and in the meantime it behooves the City Government and the School Committee to take the proper steps for securing the best form of temporary relief. At present there is a surplus of room in the Latin High School building, which, by a reasonable co-operation between the two schools, could be made to afford some relief to the English School. I would not recommend a consolidation of the two schools, but I believe that they can be brought into a more intimate connection, which would result in an advantage to many of the pupils of both schools, a possible economy in instruction, and some of the desired increase in accommodation.

In still another direction there may be an opportunity for temporary relief. The schools at present are conducted on a schedule of hours most suitable and convenient for teachers and pupils alike. At the same time, these spacious buildings, with their costly equipment, are closed and lying idle a large part of the day, when the best principles of economy would require that they be put to some service. While we would like to offer every convenience possible in the way of morning hours of work for the pupils, and also the teachers, it should be remembered that there is another aspect of the question. We are now offering all the advantages of a high school education, the best to be obtained anywhere, and are attracting in this way large numbers of people to the city who wish to educate their sons and daughters. More are accepting our offers for an education than we can comfortably provide for, and are enjoying facilities in excess of those provided

by many richer cities. The cost to the city for each high school pupil is \$58.13 per annum. The expense of maintaining the English High School alone is about \$36,000. There being such a great demand for these costly high school privileges, why could not some schedule providing for the use of the buildings afternoons and on Saturdays be put in operation, as in our colleges and scientific schools, even though it were not so convenient to all the pupils as the present arrangement? These are questions not merely for the School Committee, but for the Board of Aldermen and others, to consider. In September last there were 725 students in the English High School, and next September there will probably be 800. The lecture hall has been provided with seats the past year, and 125 are there accommodated, but the limit is now reached.

Besides the enlargement of the English High School, an addition of four rooms to the Knapp School in ward two is asked for to meet the immediate requirements of that locality. In ward seven a six-room building should be erected to accommodate the children in the westerly portion of the ward. A four or six room building is recommended by the Superintendent, to be erected as soon as practicable near the Highland School, if a suitable location can be secured.

Cost of Maintaining Schools.

The expense of maintaining our schools requires about one-third of the entire tax levy, or one-third of \$1,000,000. The following figures will be of interest:—

Latin High — Teachers' salaries, \$12,355.89; care of building, \$1,792.57; supplies, \$657.60; total, \$14,806.06.

English High — Teachers' salaries, \$23,392.14; care of building, \$3,124.33; supplies, \$4,361.36; total, \$35,877.83.

Total for maintenance of all the schools — Teachers' salaries \$197,659.90; care of buildings, \$31,123.81; supplies, \$16,131.20; total, \$244,914.91.

Population of Somerville	60 000
Entire enrollment of pupils for year	11,975
Number of school buildings	24
Valuation of school property	\$1 069,604 00
Number of classrooms	220
Number of teachers in December	263
Salaries of teachers	\$197,959 90
Cost of books and supplies	16 131 20
Cost of janitors' services	17,830 61
Cost of fuel	10,821 02
Cost for each high school pupil	58 13
Cost for each grammar and primary pupil	22 50
Entire expenditures for all school purposes, including the cost of new buildings additions, and improvements	333,068 00
Expended by the School Board, over which the City Council has no control	213,791 12

Highways.

Nineteen streets have been accepted during the past year, aggregating about two and one-half miles in length.

Eight of these streets have been graded and graveled, and two have been graded and macadanized, and of those previously accepted, but not constructed, four have been graded and graveled, and five graded and macadanized.

The northerly side of Washington street, from the Boston line to Tufts street, a distance of 1,800 feet, has been paved with granite blocks at a cost of about \$10,000. In this connection the street railway was lowered, necessitating the regrading of the southerly side of the street, which should be attended to the present year. We now have about two and three-quarters miles of paved streets in the city.

Chauncey and Winthrop avenues, bordering on either side of Broadway park, and having a total length of 2,600 feet, were taken by the Metropolitan Park Commission at the close of the year 1898 for an extension of the Fellsway boulevard. Since the removal of the park fence the commission has removed the sidewalks of these avenues next to the park, and has laid a grass-plat in each, between the roadway and the remaining sidewalk.

A second street railway track has been laid in Somerville avenue and Elm street, from Union square to Davis square. A change of location has also been granted through Davis square to Holland street, but the matter was not arranged early enough for the laying of the tracks before the winter months. As the paving of Davis square awaited the adjustment of this location, that improvement has also been postponed for the present.

The length of railways in our streets, measured as single tracks, is 22.8 miles, and locations have been granted to the West End Street Railway Company, in the past year, for 4.3 miles in addition. These are to extend in Broadway, from Main street to Curtis street, in College avenue, from Broadway to the Medford line, and in Boston avenue, from the Medford line to the Medford line again at Mystic river. Before granting these locations, College avenue was widened to sixty feet, the land required for the widening and earth for the necessary filling being given by the trustees of Tufts College. This widening has not, as yet, been constructed. We also have an agreement from the West End Street Railway Company that it will, at its own expense, strengthen the Boston-avenue bridge over Mystic river sufficiently for the operation of its railway.

The system of railway tracks in Union square has been reconstructed so as to afford convenient connections between the three lines crossing the square. This work, together with the laying of the high service water pipes, Metropolitan water pipes, storm drains, and gas mains, has so disturbed the surface of the square that it will probably be necessary to relay the paving.

The Massachusetts Pipe Line Gas Company, under authority granted by the Board of Aldermen, has laid two thirty-six-inch gas mains in Washington street (southerly side), Prospect, Houghton, and Springfield streets, from the Boston line to the Cambridge line, a distance of 6,840 feet. This work involved a large amount of labor for inspection and for changing sewers, drains, catch-basins, water mains, and water services, the cost of which has been paid by the company, which was also to restore the surface of the streets to good condition at its own expense.

A new iron bridge has been built by the Fitchburg Railroad Company over its tracks at Beacon street, while the Boston & Maine Railroad Company has temporarily repaired the wooden bridge over the Boston & Lowell railroad at School street, deferring the erection of a permanent iron structure at that point until the coming year.

Petition was made in the month of June by the Mayor and Aldermen to the Superior Court for the appointment, under the statutes, of a commission to act in the matter of abolishing the grade crossings of the Boston & Albany railroad at Somerville avenue and of the Fitchburg railroad at Somerville avenue and sundry other streets. Conferences have been held in the matter between the representatives of the railroad companies and the officers of the city, but no definite results have, as yet, been reached. Meetings have also been held with the officials of the Boston & Maine railroad in regard to grade crossings on the Lexington and Arlington branch of its southern division, formerly the Boston & Lowell railroad.

A large mass of unfinished business has been referred to you by the City Council of 1899, which includes twenty-three petitions for the acceptance of streets.

My experience of the past year convinces me that certain changes should be made in regard to appropriations and expenditures for highways. Heretofore we have had a single appropriation, to which has been charged the cost of laying out and constructing new streets, laying crosswalks and gutters, repairing sidewalks, etc., besides the general maintenance.

I believe there should be a separate appropriation for highways-construction, and that streets should be laid out under the betterment law. The present method works badly in two ways: First, so much money is expended for the construction of lateral streets, in which the general public has but little interest, that the sum available for the maintenance of the main thoroughfares is not sufficient; and second, new streets are laid out or accepted in such rapid succession that it is often a year or more after one is made a public street before the money can be spared for its construction. Under the betterment law both of these difficulties would be removed. The individual assessments would be light, and I believe they would be cheerfully paid by the abutters if prompt action on the laying out and construction of their streets

could be thereby secured. Furthermore, I know of no good reason why the cost of converting a mere beaten track between two rows of houses into a well-macadamized street should be borne by the city any more than should the cost of constructing sidewalks or laying a sewer. In the earlier years of the city there was a well-understood rule that the City Council would not lay out or accept a street until the abutters had first brought it to sub-grade. An exception to this rule was made when land was to be acquired for the extension of a street, in which case the proceedings were taken under the betterment law. A mistaken idea has prevailed to some extent that the collection of highway betterment assessments is difficult. This has not proved true in the city's experience when the proceedings have been regular and the assessments have been limited to estates abutting on the street immediately affected.

I would also recommend a separate appropriation for the maintenance of sidewalks. About fifty-three miles of brick sidewalks have been laid during the twenty-eight years Somerville has been a city, but no adequate provision has ever been made for keeping them in repair. Many of them need to be relaid, and a specific sum should be appropriated each year for that purpose.

I recommend, also, a separate appropriation for the construction and maintenance of street crossings and for the construction and maintenance of paved gutters.

With all the above-mentioned items provided for, an appropriation for highways-maintenance can be made and devoted almost exclusively to the purpose indicated by its title; namely, keeping the streets in repair.

The total amount of the appropriation for highways in 1899 was \$71,507.95.

Sidewalks.

The sum of \$10,000 was appropriated for sidewalks last year, making it possible, with the amount to be assessed upon abutters, to expend \$20,000 for these improvements.

The highways department has laid 11,760 square yards of brick sidewalks and set 13,030 linear feet, or about 2.47 miles, of edgestones, this latter item involving the laying of a similar length of paved gutters, which are paid for from highways account. In addition to the above, 6,185 square yards of brick sidewalks have been relaid and 6,130 linear feet, or 1.16 miles, of edgestones have been reset.

The total length of sidewalks provided with edgestones is now some 78.4 miles, of which 53.1 miles are covered with bricks.

Short sections of granolithic or artificial stone sidewalks have been laid in different parts of the city, the longest being on the easterly side of Benton road, from Highland avenue to Hudson street, and on the southerly side of Monmouth street, from Central street westwardly. If the cost of the material can be

brought down to that of a brick sidewalk without impairing its quality, it would seem advisable to make its use more general, as it is a very neat, smooth walk, and seems to be durable, if we may judge by those sections which have been used in our city some two or three years.

I believe that, in judging of the necessity for sidewalks, the main thoroughfares should first be considered, and that edge-stones should be set, the gutters paved, and permanent sidewalks laid therein as rapidly as the means of the city will allow.

Parks and Boulevards.

The year just passed has been a notable one in the matter of parks and boulevards. Lincoln park on Washington street has been practically completed during the year as an athletic field and pleasure park, with a driveway surrounding the playgrounds; the old Wyatt pit, so called, which has been the receptacle for all kinds of rubbish and filth for a number of years past, has been pumped out and cleaned, the shores trimmed up and enclosed by a fence, so that at present it is a respectable pond. About 40,000 cubic yards of good filling, the surplus material from all the different trench excavations where construction work has been carried on during the past year, has been deposited in this pit, and in the future, by utilizing all the available surplus material, the pond can be left shallow and in a safe condition. Trees and shrubbery have been planted in different parts of the park, so that in a short time Somerville will have one of the best playgrounds in this vicinity. Its popularity has already been shown by the throngs of young people who are daily seen playing on the field. In removing a menace to the health of the community, in improving the general appearance, and in providing a suitable place for healthful, outdoor recreation in one of the most crowded sections, the city has undertaken a successful and most commendable work. The amount expended in construction during the year was \$10,300.

Two of the old schoolhouse lots, one located on Webster avenue, near the Cambridge line, the other at the corner of Somerville avenue and Kent street, have been transferred to the public grounds department. The old Franklin building on the latter lot was sold, and the proceeds devoted to the improvement of the premises. Both of these lots have been regraded and laid out as small parks, with walks and grass plots, and, thus preserved, they will become attractive open spaces in crowded districts of our city. This little Franklin park, in particular, makes an important addition to our park system, covering, as it does, about 35,000 square feet, and having a very nice grove of beautiful shade trees. Every taxpayer should visit this park to see what has been accomplished for a very small outlay of money. All vacant lots in the city, until they are needed for some other purpose,

should be cleaned up and put to use as recreation grounds, especially if they are located in sections of the city where open spaces are scarce. The standpipe lot on Spring hill, the highest point in the city, which will not be required any longer for water purposes, on account of the completion of the high-service reservoir near Spot pond by the Metropolitan Water Commission, has been transferred to the public grounds department.

The total area maintained as parks and playgrounds in the city is 51.7 acres, and the cost of maintenance for the year has been about \$9,500.

The agreement made in December, 1898, between the city and the Metropolitan Park Commission has been carried out to good effect, with the result that the beauties of both the local and the Metropolitan systems have been very much increased. The iron fence which enclosed the Broadway park has been removed, and the Metropolitan Park Commissioners have taken the avenues on either side of the park and re-constructed them as boulevards, each one-quarter of a mile long, making a very suitable entrance to the Fellsway drive, crossing over Mystic river. It is a pleasure to know that probably within two or three years this boulevard, which extends in one direction to the Middlesex Fells, will branch off in the other direction just beyond the Wellington bridge, and extend to Revere beach and along the North shore.

By an act passed by the last Legislature, the city has been able to acquire land for boulevard purposes extending from Powder-house square, opposite Nathan Tufts park, westerly, across land of Tufts College and other private lands to North street, and thence along the easterly bank of Alewife brook to the city of Medford boundary line, opposite the old pumping station of the Boston Water Works. The distance is about a mile and a quarter.

About \$8,500 has been expended during the latter part of the year in removing the loam and sub-grading the roadway, building the sub-drains and catch-basins, and general grading between Powder-house square and North street.

When completed, this boulevard will have a roadway forty feet in width, with grass plots, planting spaces for trees, and sidewalks on either side, the total width being eighty feet; there are restrictions as to location, cost, and character of the buildings to be erected, so that, in future, Somerville will have a boulevard that will compare favorably with those in other cities.

The principal advantages of this boulevard are that it will open up for development large tracts of land, a large part of which belongs to Tufts College, and has hitherto been exempt from taxation; and also that it will give a connection with the Mystic Valley parkway of the Metropolitan system. The latter now extends to High-street bridge in West Medford, but it will be extended down the river, meeting the end of our own boulevard at the pumping station, and further along down the river valley to

Medford Centre and Wellington bridge, the land for the purpose having very recently been taken. The land for our new Somerville boulevard, about 528,000 feet, was all acquired without expense to the city, with the exception of one small lot, which was taken at the assessed valuation.

Water Department.

We were fortunate in being able to start the year with about 500 tons of iron water pipe on hand, which was purchased at the extremely low rates which prevailed last year, prices having since risen \$12 or more per ton, or about sixty-five per cent.

The total number of feet of pipe laid during the season has been 37,397, of which 17,066 feet has been laid in extending the works, and 20,331 feet in replacing cement-lined mains.

Particular attention has been given during the progress of the work to the construction of blow-offs, which serve the double purpose of cleaning out the sediment which accumulates to a greater or less extent in all water systems, and of flushing out the sewers with which they are connected. Thirty-three of these blow-offs have been constructed during the year.

A feature of the department work which has received special attention is the removal of dead ends. A large number of these were formed upon the introduction of the high service system, and have continued a source of annoyance to the present year. During the year this system has been greatly improved by laying lines of circulation pipes and connecting the dead ends into these pipes, thereby preventing the water from becoming stagnant. Forty-four of these dead ends have been removed during the year.

In connection with the removal of dead ends in the Union-square district, the water mains have been so re-arranged as to give the high-service pressure to a number of fire hydrants in that section, the water now being delivered at a pressure of 103 pounds to the square inch, making a very effective fire stream without the use of steam fire engines.

It is planned to give a similar fire service to Gilman square next year, and perhaps extend it to other business sections of the city. The chief of the fire department is particularly desirous of having it extended to Davis square.

The high-service reservoir of the Metropolitan Water Works in the Middlesex Fells has been completed, and although the system is not yet in entire operation, this city is now receiving the full benefit which will come to it in the way of increased water pressure. This pressure has been steadily gaining since last August throughout our entire high-service district, and now shows an increase of eighteen pounds per square inch over the former standpipe pressure. In the Clarendon-hill and College-hill districts the high-water service was turned on about the first of the year, and the pressure is now about fifty pounds greater

than formerly under the low-service system. The large increase in water pressure has led to the discontinuance of the standpipe on Spring hill, which has been used as a high-service reservoir for the past ten years, and this structure with some 10,000 feet of land on which it stands has been turned over to the public grounds department for such use as may hereafter be determined.

Forty-eight public fire hydrants have been set, making the total number in the city 870, or one to about every seventy inhabitants.

There is now in use in the city about 28,000 feet of the cement-lined water mains, and as this kind of pipe is apt to prove defective when least expected, I recommend its early removal. I also recommend that the removal of dead ends be followed up, and such other work continued as will maintain the greatest possible purity and healthfulness of the excellent water now furnished us by the Commonwealth, believing that, in the matter of water for domestic uses, the very best to be obtained is none too good, and is what all our consumers are entitled to receive.

The high-service pumping plant has been operated during the year for the Metropolitan Water Board, arrangements having been made whereby we run the pump continuously, and allow the surplus water over our local consumption to enter the Metropolitan northern high-service district for the benefit of the entire district, the Metropolitan Water Board reimbursing this city for the entire expense thus incurred. This arrangement will continue until the Metropolitan pumping station at Spot pond is completed, when it is expected that the operation of our plant will cease. The pump has made a remarkable record this year, and has been an important factor in meeting the requirements of the Metropolitan Water System.

There have been no serious breaks on any of the water mains during the year, no claims for damages on account of the works have arisen, and no complaints for any cause have been received. The works at the present time are in better condition than ever before, and, with a reasonable appropriation next year, they can be put into such shape that the expenses of the department thereafter can be materially reduced.

Sewers and Storm Drains.

Considerable work in sewer construction has been accomplished toward the relief of flooded cellars in the low, flat district situated between Union square and the East Cambridge line, in the vicinity of Concord square.

These sewers are what are termed the "separate system" sewers, designed for taking house drainage only (roof and ground water being excluded), and have their outlet into the Metropolitan sewerage system, so that, in times of storm, they will al-

ways have a free discharge. In each street these sewers have been laid under the sidewalks, on both sides of the street, and abutters at a small expense can now have relief from flooded cellars by providing new and separate connections.

The construction work was commenced on Prospect street at Somerville avenue, and extended through Newton street under the Fitchburg railroad tracks by a single line of sewer. At this point a branch was extended southerly through Webster avenue and Prospect street and other adjacent streets, namely, Concord avenue, Oak street, Bolton street, and Houghton street, and another branch was extended westerly from the Fitchburg railroad on Newton street, through Concord avenue and Springfield street and the adjacent streets, namely, Joseph, Adrian, Marion, Cook, and Dickinson streets.

The sewers vary in size from a 22x33-inch brick to a six-inch pipe, the length laid amounting to 15,261 feet (2.9 miles).

This "separate system" of sewers should be extended through Union square and along both sides of Somerville avenue until they give relief to the flooded cellars in the vicinity of Park, Spring, Belmont, and Lowell streets.

A short length of storm drain has been constructed in School street, between Summer and Berkeley streets, for the purpose of relieving flooded cellars in times of storm.

Another section of the city badly flooded in times of storm is an area in the vicinity of Vernon and Lowell streets, and the only means of relief is by storm water overflows into the Boston & Lowell railroad valley.

The two large outlets for storm water on each side of the city into Mystic river and Miller's river, respectively, are not as yet completed; plans and estimates of cost have been made, but the outlets have not yet been obtained. The outlet into Mystic river, across the Reed land and land of the Boston & Maine Railroad Company will probably be available during the coming year.

The outlet into Miller's river at the East Cambridge line necessitates going through a small section of Cambridge, for which the Legislature of 1899 granted this city permission, with the proviso that the State Board of Health should first approve of the plans. These plans and a general description of the work contemplated were submitted in July to the State Board of Health, and in December the city was informed that the outlet into Miller's river was not approved by the Board. The State Board of Health apparently does not grasp the situation as it exists in regard to Somerville, for it is allowing the cities of Cambridge and Boston to discharge through many outlets into Charles river polluted water, contaminated fifty per cent. more than would be the one overflow asked for by Somerville.

Eighty catch-basins have been constructed during the year, all of which tend to keep our streets in better condition. The total length of sewer construction during 1899 was 3.67 miles.

The total length of sewers now in the city is 72.44 miles; of storm drains, 3 miles; number of catch-basins, 1,020.

The total cost of construction in the sewer department during 1899 has amounted to about \$32,000.

The maintenance of the sewerage system is one of the most important items in the city's work, as the general health of the city depends largely on its sanitary condition; a force of men are kept continually cleaning and flushing the catch-basins and sewer mains, and repairing the old structures throughout the city. The cost of maintenance for 1899 has amounted to about \$9,000.

Fire Department.

The fire department consists of 102 men, divided as follows: One chief and one assistant engineer, three engine companies, two hook and ladder companies, three hose companies, one chemical company, and one combination chemical and hose company. This last is an addition to the force, the company having been organized during the last year.

The new fire station on Clarendon hill, West Somerville, was completed last year, and a company, with a combination chemical and hose wagon, placed therein. The wisdom of placing this apparatus in this locality has already been demonstrated. A new hose wagon has been placed with engine 4, in place of the combination wagon, which was transferred to the Clarendon-hill station.

The buildings of the fire department are in good condition. Only slight repairs are required to make them first-class. There is one exception; namely, the old building at Union square. This can be maintained in serviceable condition until other necessities are supplied.

A combination hose and chemical wagon, to be placed in the house with ladder No. 2 (265 Highland avenue), is recommended to furnish proper protection to this neighborhood, which, from the top of Spring hill to Highland avenue, and from Highland avenue to the Boston & Lowell railroad, has become a congested district of wooden buildings. A light piece of fire apparatus that can be quickly handled might be used to advantage.

The high-water service pressure has been increased and very effective streams can be thrown, sufficient to control fires in some places without the use of engines. Owing to the unevenness of the grade of our city, the water pressure on this high service varies from sixty to 100 pounds. It is, however, a great assistance in bringing fires under control, and if there is any way in which it could be extended over the entire city, it would be of immense advantage to the public safety.

The fire alarm telegraph has worked admirably. There has not been any great storm to disarrange the wires. When they are placed under ground we shall be more secure from accident.

and ladders can be more quickly placed against buildings where wires are now a hindrance. There have been only two dangerous fires during the year, although fires have been more numerous than heretofore. The number of fires has been about 180. This does not include twenty-one false alarms.

The fire department is efficient, as is evidenced by the fact that, although fires have been more numerous this year than in any preceding year, yet in only two instances was it necessary to sound a second alarm and bring in the reserve force. Our fire department merits entire confidence.

Some action should be taken to prohibit shingle roofs and to regulate the size of wooden buildings.

Police Department.

The police department of the city now consists of a chief, one captain, five sergeants, thirty-four patrolmen, and eight reserve police officers; total, forty-nine. Early this year four vacancies in the reserves were filled, making the force number fifty men. On November 4, 1899, one of our respected patrolmen, George A. Bodge, died, thus causing a vacancy which has not been filled. Having in mind that it is our first duty to prevent crime as much as possible, this fact, I think, is worth noting; that while the force was increased by an addition of four men, the number of arrests has been considerably less than before.

The illegal sale of intoxicating liquors has been carefully guarded against during the past year, and more than usual attention has been given to prevent juvenile depredations. There has been a great deal of complaint about boys playing ball in the streets, but, with the new playgrounds provided, it is hoped that there will be less tendency to use the streets for this purpose.

In order to keep pace with the increase of population, I recommend an increase in the regular force of three patrolmen, which would enable the chief to officer one new route day and night, and reduce the size of three routes which are now poorly protected. The health of the men in the force at present is exceptionally good, and they are all on active duty.

The Public Library.

The Somerville Public Library, in point of circulation, is the second in the state, ranking next to the Boston Public Library. Many libraries in the state doing a smaller business are granted a much larger appropriation. The library's present appropriation is \$11,000. Its new building, with more than double the capacity of the present building, and with the increased help and expense it demands, will necessitate increased expenditures. The addition was made the past year, the contract price being \$15,675.

The management contemplates, during the coming year, doing much more for the schools than it has hitherto been able to do. It now sends special libraries of twenty-five books each to eighty-five schoolrooms. This is an inadequate supply; one book for every pupil in the room should be furnished. Besides, there are 125 other rooms that are not supplied at all. To supply all these rooms adequately a larger number of new books would be required.

In the new annex to the library, which will be completed in a few weeks, the children's room will be the largest in the building. It will require a special attendant, with an assistant at certain hours. An increased supply of the best juvenile books should be purchased for this room.

A newspaper room will also be opened in the annex. The Boston dailies, the best New York dailies, the London Times, a French and a Spanish paper, and some of the best weeklies will be subscribed for.

When the new addition is finished the library should be opened to the public every evening in the week. This will require two extra attendants.

Health Department.

As in recent years, the health of the city has been excellent, thanks to our natural situation, the care of the people, and the vigilance of the health department. Although the conditions were not quite so favorable as in the preceding year, which was an exceptionally good one, there has been no serious outbreak of contagious disease. In June an epidemic of scarlet fever threatened the city, but it was prevented by the closing of the Luther V. Bell School, among whose pupils it prevailed, and the thorough washing with corrosive sublimate and fumigation of the schoolhouse. Every precaution is taken by the health department against the spreading of contagious disease, especially in immediately notifying the school and public library authorities.

Weights and Measures.

A great deal of work has been done the past year by the sealer of weights and measures; a kind of work which is of importance to a very large number of people. At a salary of \$600, the officer in charge has tested 48,361 scales, weights, measures, etc., including many thousands of milk jars. As many as twenty scales, five weights, forty-eight dry measures, 1,777 wet measures (milk jars, etc.), and three coal baskets were condemned. A very close watch has been kept on pedlers and certain other dealers, with the result that there has been a saving to many purchasers among the very class of our citizens who most need protection of this kind.

Street Lights and Electric Wires.

The lighting service during the year has been much improved. Fourteen new arc lights have been added, making a total of 365 arcs, and the locations of several lights changed to better the service. Twenty-seven new incandescent lights of 32-candle-power have been added, and all of the old 25-candle-power changed to 32, which is a great improvement.

The fire alarm and police systems have received special attention, and the service has been of the best. During the year an emergency wagon has been added to this department, which has proven a valuable accessory. This wagon is used for what its name implies, viz., emergencies. When a report is received at the Central Fire Station of a wire or pole down, this wagon is sent to the scene of trouble, and every means used to insure safety to the public until the damage is repaired by the company interested.

Ninety-eight buildings have been inspected during the year, and 300 visits made to same. The department has the care of all electric work belonging to the city, including all schoolhouses and public buildings.

Poor Department.

The past year has been made memorable in the annals of the poor department by the purchase of the Levi Russell estate on Broadway and North street, adjoining Alewife brook, and the conversion of the buildings into an almshouse, or a "City Home," as it is to be called. The house has been thoroughly renovated and put in good condition, with dining-room, laundry, and bath-rooms; in fact, the whole establishment has been modernized. The home will accommodate thirty persons. At the present time sixteen are comfortably cared for, and we know that now they are kept warm and clean, and have enough to eat. These buildings will be sufficient for the city's needs for several years, and the Overseers of the Poor feel very much gratified that, after so many years, they have been furnished with so comfortable a home for the unfortunate poor of our city. The house was opened November 15, and our poor people, who were in Malden, Medford, Cambridge, and Boston almshouses, and in some private families in our own city, were moved to the home. The property cost \$18,000; expense of repairs and putting in order about \$3,300. The furnishing cost \$1,426.09. Mr. and Mrs. J. Foster Colquhoun have been employed as warden and matron of the institution at a salary of \$600 per year. I believe the institution is doing good work. Its location is the best that could be desired, and the city is to be congratulated upon the final settlement of a question which has long been discussed by different city councils. Most of the land, which comprises about eight acres, is suitable for market gardening, or would cut up into desirable house lots

if it should seem expedient to dispose of any part of it. It fronts on Broadway and North street and the new boulevard. During the year the department has aided 294 families, and paid for the support of ninety-one different insane persons, and has now sixty-five insane persons on its list.

Somerville Hospital.

It is now over six years since this institution was founded, and it has been demonstrated that it is a necessity in this city. Its building was made possible through the generosity of Miss Martha R. Hunt and the liberality of other citizens. The charitable work done there has been of such an amount that continual appeals have been made to the people, associations, and the trustees for funds to continue the work. Although the money paid to it by the city has increased from year to year, the amounts represent only about seventy-three per cent. of the cost to the hospital for the services rendered in the care of the city patients, taken on the basis of the average cost of patients in the hospital.

By the adoption of the new City Charter, the citizens have shown themselves favorable to the city doing more for its support, and I would recommend that an appropriation be made this year for this purpose, and, in addition, that the money collected by the city from the state, cities, and towns for the care of their sick be also paid to the Somerville Hospital.

Shade Trees.

In no way can we better contribute to the beauty of the city and the health and comfort of its inhabitants than by having shade trees adorn our streets. Some of our highways are well provided with trees, while others have none at all. I believe that a small appropriation should be made each year for the planting of shade trees, and would recommend that an appropriation be made this year for that purpose. By pursuing such a policy, the streets could be well provided for in a few years, and the coming generation would bless the public spirit and foresight of the present. A little money expended regularly in this way would make a good showing in the results obtained. We should also encourage the planting of shade and other trees by individuals, as well as by the public.

Street Watering.

The watering of the streets has been carried on during the past year with very good results, and to the evident satisfaction of the great majority of the people. I believe that the watering should be extended to private as well as public streets, whenever the abutters are willing to pay their proportionate share of the cost.

Law Department.

The duties required in this department are increasing with the growth of the city. There have been forty-five cases in court in which the city was interested, and several claims have been settled for small sums out of court. The expense to the city on account of land damages, accidents, and suits for abatement of taxes amounted to \$3,140. The passage of bills by the Legislature was secured for the construction of a sewer into Miller's river, for acquiring a small piece of land on Winter hill, to perfect title to the land desired for almshouse purposes, a bill for acquiring land for Powder-house boulevard, and releases obtained from the owners and titles examined. A bill was secured to prevent the blasting of ledges. Petitions have been entered in court for the abolition of grade crossings of the Fitchburg Railroad Company, which are now pending, and various matters relating to corporations, etc., have received attention.

Accounts.

In order that our system of accounts may conform to the spirit of the new City Charter, the central idea of which is personal responsibility, it seems necessary that our schedule of appropriations should be revised. Heretofore the salaries of most of the city officers have been charged to salaries account; the cost of books, stationery, and printing to printing and stationery account; other expenses to miscellaneous account, etc. I would recommend that now an appropriation be made for each department, from which every expense of that department shall be paid,—as, for instance, Assessors, City Clerk, City Treasurer and Collector. The same idea should apply throughout the list of appropriations, making the titles of the several accounts as specific as possible.

Somerville's Soldiers and Sailors.

Before closing I will speak of an important event in our municipal life, the return of our local militia company last spring from its year of service in the war with Spain. Company M, of the Eighth Massachusetts Volunteers, after remaining in camp at Framingham, Chickamauga Park, Lexington, Ky., and Americus, Ga., for many months of drill and preparation, went to Cuba early last year, and remained at Matanzas about three months, doing provost duty. The company had become one of the most proficient in the volunteer army, and had won the praise of many of the highest officers. On account of its well-known efficiency, it was selected for special duty in Cuba, and while there added to its excellent record. It was fitting that the City Government should take official notice of the return of our boys in this and other companies. A celebration, including a parade, reception, and ban-

quet, was planned in their honor, and was very successfully carried out on the Nineteenth of April, that memorable anniversary day in American history. The young men from Somerville who took part in the military and naval operations during the war with Spain have been a credit to the city, and the same is equally true of those who are now fighting in the Philippines.

New City Charter.

I have already called your attention to the change in the methods of our municipal government, brought about by the adoption of the new City Charter. This change in our frame of government marks one of the most important events in our municipal history, and I believe that it will have the best of results. The increase in the number of wards, the abolition of the common council, or, rather, the consolidation of the two boards into one, the increase in the executive authority, are some of the more important changes, the details of which we have not the time to discuss now. The successful operation of the new charter will depend a great deal upon this, the first government elected under it.

I would recommend that we proceed slowly and with the greatest care, all departments of the government working together, as I believe they will, for the most efficient and best possible administration of our city affairs. It will be my earnest effort to co-operate with you to the best of my ability to accomplish this desirable result.

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Treasurer's Office, February 1, 1900.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen,—The undersigned presents herewith the twenty-eighth annual report of the financial condition of the city, and a statement showing, in detail, the receipts and disbursements for the year ending December 31, 1899.

The value of the property of the city December 31, 1898, was \$2,752,368.55. The property acquired during the year was as follows:—

Fire Department, Fire Station, Clarendon Hill	\$11,617 28
Public Grounds, Lincoln Park	10,320 14
Public Library Addition	10,441 97
Schoolhouse, Burns, Addition	19,680 87
Schoolhouse, Forster, Improvement	20,603 96
Schoolhouse, Highland, Sanitary Improvement	6,463 65
Schoolhouse, Ward Two, "Albion A. Perry"	28,358 88
Support of Poor, "City Home"	15,409 25
Water Works Extension	19,978 59

Total amount of property acquired during the year	\$142,874 59
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Making the value of the public property December 31, 1899, as per Table A, \$2,895,243.14.

The funded debt December 31, 1898, as per Table B of the last annual report, was \$1,552,000.

The debt was increased during the year by appropriations as follows:—

Schoolhouse, Forster, Improvement	\$35,000 00
Schoolhouse, Highland, Sanitary Improvement	5,000 00
Public Library Addition	15,000 00
Public Grounds, Lincoln Park	10,000 00
Powder-House Boulevard	10,000 00
Fire Department, Fire Station, Clarendon Hill	4,000 00
Fire Department, Fire Station No. 1	1,000 00
Highways, Paving Washington Street, Tufts Street, to Boston Line	10,000 00
Highways, Paving Davis Square	5,000 00
Renewals of Funded Debt	15,000 00

Total amount of appropriations on Funded Debt account	\$110,000 00
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To provide for the above-mentioned appropriations the following bonds were issued, viz.:—

City Loan Bonds Nos. 2516 to 2523, payable 1900, interest 4 per cent	\$8,000 00
City Loan Bonds Nos. 2524 to 2531, payable 1901, interest 4 per cent	8,000 00
City Loan Bonds Nos. 2532 to 2539, payable 1902, interest 4 per cent	8,000 00
City Loan Bonds Nos. 2540 to 2547, payable 1903, interest 4 per cent	8,000 00
City Loan Bonds Nos. 2548 to 2555, payable 1904, interest 4 per cent	8,000 00
City Loan Bonds Nos. 2556 to 2563, payable 1905, interest 4 per cent	8,000 00
City Loan Bonds Nos. 2564 to 2570, payable 1906, interest 4 per cent	7,000 00
City Loan Bonds Nos. 2571 to 2577, payable 1907, interest 4 per cent	7,000 00
City Loan Bonds Nos. 2578 to 2584, payable 1908, interest 4 per cent	7,000 00
City Loan Bonds Nos. 2585 to 2591, payable 1909, interest 4 per cent	7,000 00
City Loan Bonds Nos. 2592 to 2595, payable 1910, interest 4 per cent	4,000 00
City Loan Bonds Nos. 2596 to 2599, payable 1911, interest 4 per cent	4,000 00
City Loan Bonds Nos. 2600 to 2603, payable 1912, interest 4 per cent	4,000 00
City Loan Bonds Nos. 2604 to 2607, payable 1913, interest 4 per cent	4,000 00
City Loan Bonds Nos. 2608 to 2611, payable 1914, interest 4 per cent	4,000 00
City Loan Bonds Nos. 2612 to 2614, payable 1915, interest 4 per cent	3,000 00
City Loan Bonds Nos. 2615 to 2617, payable 1916, interest 4 per cent	3,000 00
City Loan Bonds Nos. 2618 to 2620, payable 1917, interest 4 per cent	3,000 00
City Loan Bonds Nos. 2621 to 2623, payable 1918, interest 4 per cent	3,000 00
City Loan Bonds Nos. 2624 to 2625, payable 1919, interest 4 per cent	2,000 00
Total amount of bonds issued in 1899	<u>\$110,000 00</u>

The following bonds became due and were paid during the year, viz.:—

City Loan Bonds Nos. 1620 to 1628, interest 4 per cent	\$9,000 00
City Loan Bonds Nos. 1791 to 1809, interest 4 per cent	19,000 00
City Loan Bonds Nos. 2078 to 2087, interest 4 per cent	10,000 00
City Loan Bonds Nos. 2234 to 2244, interest 4 per cent	11,000 00
City Loan Bonds Nos. 2365 to 2375, interest 4 per cent	11,000 00
City Loan Bonds Nos. 994 to 1002, interest 4 per cent	9,000 00
City Loan Bonds Nos. 1083 to 1092, interest 4 per cent	10,000 00
City Loan Bonds Nos. 1135 to 1138, interest 4 per cent	4,000 00
City Loan Bonds Nos. 1196 to 1202, interest 4 per cent	7,000 00
City Loan Bonds Nos. 1445 to 1468, interest 4½ per cent	24,000 00
Amount carried forward	<u>\$114,000 00</u>

Amount brought forward	\$114,000 00
City Loan Bonds Nos. 1294 to 1303, interest 4 per cent	10,000 00
Sewer Loan Bond No. 58, interest 4 per cent	1,000 00
Sewer Loan Bond No. 175, interest 4 per cent	1,000 00
Sewer Loan Bond No. 199, interest 4 per cent	1,000 00
Sewer Loan Bond No. 41, interest 4½ per cent	1,000 00
Sewer Loan Bonds Nos. 86 to 89, interest 4 per cent	4,000 00
City Loan Paving Bonds Nos. 31 to 35, interest 4 per cent	5,000 00
Water Loan Bonds Nos. 167 to 181, interest 5 per cent	15,000 00
Water Loan Bond No. 182, interest 5 per cent	500 00
Water Loan Bond No. 288, interest 4 per cent	1,000 00
Water Loan Bond No. b450, interest 4 per cent	1,000 00
Water Loan Bonds Nos. 230 to 342, interest 4 per cent	13,000 00
Water Loan Bonds Nos. 409 to 410, interest 4 per cent	2,000 00

Total amount of bonds paid during the year \$169,500 00

Leaving the net funded debt December 31, 1899, as per Table B, \$1,492,500, classified as follows:—

City Loan Bonds bearing interest at 4 per cent	\$917,000 00
City Loan Bonds bearing interest at 4½ per cent	113,000 00
City Loan Sewer Bonds bearing interest at 4 per cent	146,000 00
City Loan Sewer Bonds bearing interest at 4½ per cent	12,000 00
City Loan Paving Bonds bearing interest at 4 per cent	65,000 00
Water Loan Bonds bearing interest at 4 per cent	217,000 00
Water Loan Bonds bearing interest at 5 per cent	12,500 00
Water Loan Bonds bearing interest at 5½ per cent	10,000 00

Total Funded Debt, City Loan	\$1,104,000 00
Total Funded Debt, Water Loan	239,500 00
Total Funded Debt, Paving Loan (outside legal limit)	65,000 00
Total Funded Debt, Sewer Loan (outside legal limit)	84,000 00
	<hr/>
	\$1,492,500 00

Resources.

The assessors' warrant for the tax levy, assessed upon the polls and estates of the inhabitants, was duly received.

The total amount of taxable property was \$51,262,400, and the rate of taxation was \$16.30 on each \$1,000 valuation, as follows:—

Real Estate, valuation	\$46,507,300 00
Personal Estate, valuation	4,755,100 00

Total valuation	\$51,262,400 00
At a rate of \$16.30 on \$1,000 valuation	\$835,577 12
Polls, 16,505 at \$2.00	33,010 00
Street Watering, 349,846 linear feet at 4 cents	13,993 84

Total amount of tax levy	\$882,580 96
Borrowed on Funded Debt account to provide for cost of public improvements and renewals of debt	110,000 00
State of Massachusetts, Metropolitan Water Assessment, balance to credit of Excess and Deficiency account	2,577 19
Water Works Income	214,280 83

Amount carried forward \$1,209,438 98

Amount brought forward	\$1,209,438 98
National Bank and Corporation Taxes, applied to Salaries	33,831 26
Court fees, fines, etc., applied to Police	4,013 00
County of Middlesex, dog licenses, applied to Public Library	2,052 86
Excess and Deficiency account, applied to Sewers, Construction	16,549 22
Street Railway tax for the year 1898, applied to Highways	31,507 95
Street Railway tax for the year 1899, applied to Highways	29,002 25
Total amount of resources	<u>\$1,326,395 52</u>

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Cash	\$71,312 12
Real Estate Liens	2,740 09
Reduction of Funded Debt	24,091 37
Schoolhouse, Burns, Addition	180 87
Sewer Assessments	6,046 98
Sidewalk Assessments	3,386 09
State of Massachusetts, Burial of Indigent Soldiers and Sailors	350 00
State of Massachusetts, Indigent Soldiers and Sailors	231 50
State of Massachusetts, State Aid	10,669 00
Taxes	388,126 21
Watering Streets, Assessments	2 88
Total amount of assets	<u>\$507,137 11</u>

The liabilities are:—

Fire Department, Fire Station, Clarendon Hill	\$32 72
Fire Department, Fire Station No 1	1,000 00
Highways	29,471 71
Highways, Paving Davis Square	5,000 00
Highways, Paving Washington Street, Tufts Street to Boston Line	217 28
Overplus on Tax Sales	1,668 13
Public Library Addition	6,058 03
Public Library, Isaac Pitman Fund	1,000 00
Powder House Boulevard	546 98
Schoolhouse, Forster, Improvement	14,396 04
Schoolhouse, Highland, Sanitary Improvement	21 36
Schoolhouse, Ward Two	1,362 59
Sewers, Construction	32,973 90
Reduction of Funded Debt, Metropolitan Sewer Assessment, account of Water Works Income	31,000 00
Sundry Persons	29,396 10
Support of Poor, "City Home"	6,000 75
Temporary Loans	310,000 00
Total amount of liabilities	<u>\$470,145 59</u>
Excess of available assets over liabilities	36,991 52
	<u>\$507,137 11</u>

Total cash receipts for the year, including a balance of \$70,376.04 from the year 1898	\$2,160,350 15
Total cash disbursements	2,089,038 03
Leaving in the treasury the sum of	<u>\$71,312 12</u>

A detailed statement of the public property, funded debt, and the receipts and disbursements of the several accounts will be found in the following appendix.

Respectfully submitted,

JOHN F. COLE,

Treasurer and Collector of Taxes.

APPROVAL OF TREASURER'S REPORT.

In Committee on Finance, February 12, 1900.

To the Board of Aldermen of Somerville:—

The Committee on Finance, to whom was referred the report of the Treasurer and Collector of Taxes for the year 1899, report that, in compliance with section 10 of chapter 4 of the Revised Ordinances, they have, in conjunction with the Auditor, examined and audited the books and accounts of the Treasurer and Collector of Taxes for the year ending December 31, 1899, and in the manner prescribed by said section. In connection with this examination, a careful comparison has been made of the books of the City Auditor, and with the financial statements received from the several committees, boards, and officers of the city, accountable for the use of the city funds. The cash account of the Treasurer has been verified by actual count of the cash on hand, and the balances shown to be in the banks of deposit have been confirmed by the officers of the several banks.

We are pleased to report, as a result of the examination, that no errors were discovered in the accounts and books of the Treasurer and Collector, which are models of neatness and care, and we recommend that his report be accepted and printed in the Annual Reports of 1899.

FRANCIS M. WILSON,	}	<i>Committee</i>
CHARLES A. GRIMMONS,		
ISAAC M. STORY,		
PAUL J. SMITH,		<i>on</i>
ARTHUR P. VINAL,		
CHARLES F. WILDES,		
JAMES W. KENNEY,	}	<i>Finance.</i>

In Board of Aldermen, February 21, 1900. Accepted.

GEORGE I. VINCENT, Clerk.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

Public Property December 31, 1899.

Central Hill land (13 acres, 5,032 feet)		\$200,000 00
City Hall	\$40,662 73	
Furniture	10,000 00	
		50,662 73
Public Library building	30,967 58	
Public Library	25,000 00	
		55,967 58
City Hall Annex		21,587 43
Latin High Schoolhouse	52,000 00	
Furniture	3,500 00	
Philosophical apparatus	500 00	
		56,000 00
English High Schoolhouse	129,579 39	
Furniture	5,000 00	
Philosophical and manual training apparatus	7,000 00	
		141,579 39
Prescott Schoolhouse, land (21,444 feet) and building	45,000 00	
Furniture	2,000 00	
		47,000 00
Luther V. Bell Schoolhouse, land (23,396 feet) and building	45,000 00	
Furniture	2,000 00	
		47,000 00
Forster Schoolhouse, land (27,499 feet) and building	64,428 96	
Furniture	3,175 00	
		67,603 96
Morse Schoolhouse, land (29,109 feet) and building	45,000 00	
Furniture	2,000 00	
		47,000 00
Edgerly Schoolhouse, land (26,428 feet) and building	45,000 00	
Furniture	2,000 00	
		47,000 00
Highland Schoolhouse, land (23,260 feet) and building	53,300 84	
Furniture	2,000 00	
		55,300 84
Charles G. Pope Schoolhouse, land (27,236 feet) and building	60,000 00	
Furniture	2,000 00	
		62,000 00
William H. Hodgkins Schoolhouse, land (35,034 feet) and building	58,289 34	
Furniture	2,500 00	
		60,789 34
Amount carried forward		\$959,491 27

Amount brought forward		\$959,491 27	
Martin W. Carr Schoolhouse, land (14,850 feet) and building	63,921 03		
Furniture	3,000 00		
		<hr/>	66,921 03
Jacob T. Glines Schoolhouse, land (28,800 feet) and building	71,560 71		
Furniture	2,100 00		
		<hr/>	73,660 71
O. S. Knapp Schoolhouse, land (24,517 feet) and building	48,256 67		
Furniture	2,000 00		
		<hr/>	50,256 67
Bingham Schoolhouse, land (21,017 feet) and building	36,506 87		
Furniture	1,400 00		
		<hr/>	37,906 87
Sanford Hanscom Schoolhouse, land (12,756 feet) and building	43,632 19		
Furniture	900 00		
		<hr/>	44,532 19
Davis Schoolhouse, land (38,152 feet) and building	25,000 00		
Furniture	700 00		
		<hr/>	25,700 00
George W. Durell Schoolhouse, land (13,883 feet) and building	16,179 10		
Furniture	700 00		
		<hr/>	16,879 10
Cummings Schoolhouse, land (11,300 feet) and building	15,000 00		
Furniture	700 00		
		<hr/>	15,700 00
Prospect-hill Schoolhouse, land (25,315 feet) and building	20,000 00		
Furniture	1,000 00		
		<hr/>	21,000 00
Lincoln Schoolhouse, land (17,662 feet) and building	14,000 00		
Furniture	700 00		
		<hr/>	14,700 00
Jackson Schoolhouse, land (11,212 feet) and building	8,000 00		
Furniture	600 00		
		<hr/>	8,600 00
Bennett Schoolhouse, land (20,560 feet) and building	10,000 00		
Furniture	600 00		
		<hr/>	10,600 00
Harvard Schoolhouse, land (9,810 feet) and building	3,500 00		
Furniture	100 00		
		<hr/>	3,600 00
Franklin Schoolhouse, land (33,017 feet) and building	15,000 00		
Furniture	600 00		
		<hr/>	15,600 00
Amount carried forward			<hr/>
			\$1,365,147 84

Amount brought forward		\$1,365,147 84
Spring-hill Schoolhouse, land (4,991 feet) and building	1,500 00	
Furniture	100 00	
		1,600 00
Burns Schoolhouse, land (16,080 feet) and building	33,980 87	
Furniture	1,400 00	
		35,380 87
Albion A. Perry Schoolhouse, Washington street, land (46,080 feet) and building	37,417 41	
Furniture	814 00	
		38,231 41
City Farm, land (10 acres, 12,523 feet)		40,000 00
Cedar-street Schoolhouse	700 00	
Furniture	100 00	
		800 00
City stables and dwelling houses		28,322 00
Equipments for highway repairs		21,690 00
Watering carts and sheds		5,000 00
No. 1 Fire Station, land (8,279 feet) and building	27,052 93	
Engine No. 2 and apparatus	4,000 00	
Hose wagon No. 1 and apparatus	1,500 00	
Furniture	400 00	
		32,952 93
No. 2 Fire Station, land (5,400 feet) and building	8,000 00	
Furniture	400 00	
Hose wagon No. 2 and apparatus	1,500 00	
		9,900 00
No. 3 Fire Station, land (5,226 feet) and building	9,000 00	
Furniture	400 00	
Hose wagon No. 3 and apparatus	1,500 00	
Hook and ladder truck and apparatus	3,400 00	
		14,300 00
No. 4 Fire Station, land (9,100 feet) and building	19,054 42	
Furniture	400 00	
Engine No. 4 and apparatus	4,000 00	
Combination wagon and apparatus	2,500 00	
		25,954 42
No. 5 Fire Station, land (39,456 feet) and building	16,000 00	
Furniture	400 00	
Hose wagon No. 5 and apparatus	1,500 00	
		17,900 00
Hook and Ladder Station No. 2, land (9,902.7 square feet) and building, equipment and furniture		14,753 71
Central Fire Station, land (10,019 feet) and building	43,603 89	
Furniture	500 00	
Engine No. 1 and apparatus	4,000 00	
Hose wagon and apparatus	2,000 00	
Two relief hose carriages	1,000 00	
One relief hook and ladder	400 00	
Chemical Engine A and equipment	2,498 53	
		54,002 42
Amount carried forward		\$1,705,935 60

Amount brought forward		\$1,705,935 60
Fire Alarm and Police Signal apparatus		36,100 00
Police Station, land (15,232 feet) and building	45,000 00	
Furniture	3,000 00	
	<hr/>	48,000 00
Prospect street, land (7,918 feet) and building		7,000 00
Broadway Park (cost \$212,993.20)		125,000 00
Joy street, land (2,960 feet)		500 00
Walnut Hill, land (10,980 feet)		1,000 00
Elm street, land (18,000 feet)		6,000 00
Webster avenue, land (11,050 feet)		4,241 50
Holland street, land (5 acres, 6,806 feet)		20,000 00
Gravel land in Waltham (about 35 acres)		15,000 00
Gravel land in Wakefield (about 1 1-3 acres)		5,000 00
Gravel land rear North street (about 5 43-100 acres)		4,000 00
Nathan Tufts Park (about 4 54-100 acres)		47,649 28
Somerville Water Works, cost		741,557 57
Oliver street, land (63,069 feet)		7,500 00
Whipple street, land (15,240 feet)		800 00
Lincoln Park, Washington street (359,604.77 feet)		52,320 28
Fire Station, Clarendon Hill, land (8,113.1 feet) and building		21,431 48
Prospect Hill Park (56,700 feet)		20,356 21
Public Library Addition		10,441 97
City Home, Broadway, land (445,194 feet) and buildings (\$6,000.75 balance due)	13,983 16	
Furniture	1,426 09	
	<hr/>	15,409 25
Total amount of public property		\$2,895,243 14

TABLE B.—FUNDED DEBT DECEMBER 31, 1899.

City Loan Bonds.

DATE.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
July 1, 1894	1,629 to 1,637	4	July 1, 1900	\$1,000	\$9,000
July 1, 1895	1,810 to 1,827	4	July 1, 1900	1,000	18,000
July 1, 1896	2,088 to 2,097	4	July 1, 1900	1,000	10,000
July 1, 1897	2,245 to 2,255	4	July 1, 1900	1,000	11,000
July 1, 1898	2,376 to 2,386	4	July 1, 1900	1,000	11,000
July 1, 1899	2,516 to 2,523	4	July 1, 1900	1,000	8,000
October 1, 1890	1,093 to 1,102	4	Oct. 1, 1900	1,000	10,000
October 1, 1890	1,139 to 1,142	4	Oct. 1, 1900	1,000	4,000
October 1, 1891	1,203 to 1,208	4	Oct. 1, 1900	1,000	6,000
October 1, 1893	1,469 to 1,492	4½	Oct. 1, 1900	1,000	24,000
January 1, 1892	1,304 to 1,313	4	Jan. 1, 1901	1,000	10,000
July 1, 1894	1,638 to 1,646	4	July 1, 1901	1,000	9,000
July 1, 1895	1,828 to 1,845	4	July 1, 1901	1,000	18,000
July 1, 1896	2,098 to 2,106	4	July 1, 1901	1,000	9,000
July 1, 1897	2,256 to 2,266	4	July 1, 1901	1,000	11,000
July 1, 1898	2,387 to 2,396	4	July 1, 1901	1,000	10,000
July 1, 1899	2,524 to 2,531	4	July 1, 1901	1,000	8,000
October 1, 1890	1,143 to 1,146	4	Oct. 1, 1901	1,000	4,000
October 1, 1891	1,209 to 1,211	4	Oct. 1, 1901	1,000	3,000
October 1, 1893	1,493 to 1,516	4½	Oct. 1, 1901	1,000	24,000
January 1, 1892	1,314 to 1,323	4	Jan. 1, 1902	1,000	10,000
July 1, 1894	1,647 to 1,655	4	July 1, 1902	1,000	9,000
July 1, 1895	1,846 to 1,863	4	July 1, 1902	1,000	18,000
July 1, 1896	2,107 to 2,115	4	July 1, 1902	1,000	9,000
July 1, 1897	2,267 to 2,275	4	July 1, 1902	1,000	9,000
July 1, 1898	2,397 to 2,406	4	July 1, 1902	1,000	10,000
July 1, 1899	2,532 to 2,539	4	July 1, 1902	1,000	8,000
October 1, 1891	1,212 to 1,214	4	Oct. 1, 1902	1,000	3,000
October 1, 1893	1,517 to 1,546	4½	Oct. 1, 1902	1,000	30,000
	Amount	carried forward	.	.	\$323,000

TABLE B.—City Loan Bonds.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When Due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$323,000
July 1, 1894	1,656 to 1,664	4	July 1, 1903	\$1,000	9,000
July 1, 1895	1,864 to 1,881	4	July 1, 1903	1,000	18,000
July 1, 1896	2,116 to 2,123	4	July 1, 1903	1,000	8,000
July 1, 1897	2,276 to 2,284	4	July 1, 1903	1,000	9,000
July 1, 1898	2,407 to 2,416	4	July 1, 1903	1,000	10,000
July 1, 1899	2,540 to 2,547	4	July 1, 1903	1,000	8,000
October 1, 1891	1,215 to 1,217	4	Oct. 1, 1903	1,000	3,000
October 1, 1893	1,547 to 1,581	4½	Oct. 1, 1903	1,000	35,000
July 1, 1894	1,655 to 1,673	4	July 1, 1904	1,000	9,000
July 1, 1895	1,882 to 1,899	4	July 1, 1904	1,000	18,000
July 1, 1896	2,124 to 2,131	4	July 1, 1904	1,000	8,000
July 1, 1897	2,285 to 2,293	4	July 1, 1904	1,000	9,000
July 1, 1898	2,417 to 2,426	4	July 1, 1904	1,000	10,000
July 1, 1899	2,548 to 2,555	4	July 1, 1904	1,000	8,000
October 1, 1891	1,218 to 1,220	4	Oct. 1, 1904	1,000	3,000
July 1, 1894	1,674 to 1,679	4	July 1, 1905	1,000	6,000
July 1, 1895	1,900 to 1,917	4	July 1, 1905	1,000	18,000
July 1, 1896	2,132 to 2,139	4	July 1, 1905	1,000	8,000
July 1, 1897	2,294 to 2,302	4	July 1, 1905	1,000	9,000
July 1, 1898	2,427 to 2,436	4	July 1, 1905	1,000	10,000
July 1, 1899	2,556 to 2,563	4	July 1, 1905	1,000	8,000
October 1, 1891	1,221 to 1,223	4	Oct. 1, 1905	1,000	3,000
July 1, 1894	1,680 to 1,685	4	July 1, 1906	1,000	6,000
July 1, 1895	1,918 to 1,932	4	July 1, 1906	1,000	15,000
July 1, 1896	2,140 to 2,147	4	July 1, 1906	1,000	8,000
July 1, 1897	2,303 to 2,311	4	July 1, 1906	1,000	9,000
July 1, 1898	2,437 to 2,446	4	July 1, 1906	1,000	10,000
July 1, 1899	2,564 to 2,570	4	July 1, 1906	1,000	7,000
July 1, 1894	1,686 to 1,691	4	July 1, 1907	1,000	6,000
July 1, 1895	1,933 to 1,947	4	July 1, 1907	1,000	15,000
	Amount	carried	forward .	. . .	\$626,000

TABLE B. — City Loan Bonds.— Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount brought forward				\$626,000
July 1, 1896	2,148 to 2,155	4	July 1, 1907	\$1,000	8,000
July 1, 1897	2,312 to 2,320	4	July 1, 1907	1,000	9,000
July 1, 1898	2,447 to 2,456	4	July 1, 1907	1,000	10,000
July 1, 1899	2,571 to 2,577	4	July 1, 1907	1,000	7,000
July 1, 1894	1,692 to 1,697	4	July 1, 1908	1,000	6,000
July 1, 1895	1,948 to 1,962	4	July 1, 1908	1,000	15,000
July 1, 1896	2,156 to 2,163	4	July 1, 1908	1,000	8,000
July 1, 1897	2,321 to 2,325	4	July 1, 1908	1,000	5,000
July 1, 1898	2,457 to 2,465	4	July 1, 1908	1,000	9,000
July 1, 1899	2,578 to 2,584	4	July 1, 1908	1,000	7,000
July 1, 1894	1,698 to 1,703	4	July 1, 1909	1,000	6,000
July 1, 1895	1,963 to 1,976	4	July 1, 1909	1,000	14,000
July 1, 1896	2,164 to 2,171	4	July 1, 1909	1,000	8,000
July 1, 1897	2,326 to 2,330	4	July 1, 1909	1,000	5,000
July 1, 1898	2,466 to 2,470	4	July 1, 1909	1,000	5,000
July 1, 1899	2,585 to 2,591	4	July 1, 1909	1,000	7,000
July 1, 1894	1,704 to 1,709	4	July 1, 1910	1,000	6,000
July 1, 1895	1,977 to 1,990	4	July 1, 1910	1,000	14,000
July 1, 1896	2,172 to 2,179	4	July 1, 1910	1,000	8,000
July 1, 1897	2,331 to 2,335	4	July 1, 1910	1,000	5,000
July 1, 1898	2,471 to 2,475	4	July 1, 1910	1,000	5,000
July 1, 1899	2,592 to 2,595	4	July 1, 1910	1,000	4,000
July 1, 1894	1,710 to 1,715	4	July 1, 1911	1,000	6,000
July 1, 1895	1,991 to 2,004	4	July 1, 1911	1,000	14,000
July 1, 1896	2,180 to 2,187	4	July 1, 1911	1,000	8,000
July 1, 1897	2,336 to 2,340	4	July 1, 1911	1,000	5,000
July 1, 1898	2,476 to 2,480	4	July 1, 1911	1,000	5,000
July 1, 1899	2,596 to 2,599	4	July 1, 1911	1,000	4,000
July 1, 1894	1,716 to 1,721	4	July 1, 1912	1,000	6,000
July 1, 1895	2,005 to 2,018	4	July 1, 1912	1,000	14,000
	Amount carried forward				\$859,000

TABLE B.—City Loan Bonds.—Concluded.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$859,000
July 1, 1896	2,188 to 2,194	4	July 1, 1912	\$1,000	7,000
July 1, 1897	2,341 to 2,344	4	July 1, 1912	1,000	4,000
July 1, 1898	2,481 to 2,485	4	July 1, 1912	1,000	5,000
July 1, 1899	2,600 to 2,603	4	July 1, 1912	1,000	4,000
July 1, 1894	1,722 to 1,727	4	July 1, 1913	1,000	6,000
July 1, 1895	2,019 to 2,031	4	July 1, 1913	1,000	13,000
July 1, 1896	2,195 to 2,201	4	July 1, 1913	1,000	7,000
July 1, 1897	2,345 to 2,348	4	July 1, 1913	1,000	4,000
July 1, 1898	2,486 to 2,490	4	July 1, 1913	1,000	5,000
July 1, 1899	2 604 to 2,607	4	July 1, 1913	1,000	4,000
July 1, 1894	1,728 to 1,733	4	July 1, 1914	1,000	6,000
July 1, 1895	2,032 to 2,044	4	July 1, 1914	1,000	13,000
July 1, 1896	2,202 to 2,208	4	July 1, 1914	1,000	7,000
July 1, 1897	2,349 to 2,352	4	July 1, 1914	1,000	4,000
July 1, 1898	2,491 to 2,495	4	July 1, 1914	1,000	5,000
July 1, 1899	2,608 to 2,611	4	July 1, 1914	1 000	4,000
July 1, 1895	2,045 to 2,057	4	July 1, 1915	1,000	13,000
July 1, 1896	2,209 to 2,215	4	July 1, 1915	1,000	7,000
July 1, 1897	2,353 to 2,356	4	July 1, 1915	1,000	4,000
July 1, 1898	2,496 to 2,500	4	July 1, 1915	1,000	5,000
July 1, 1899	2,612 to 2,614	4	July 1, 1915	1,000	3,000
July 1, 1896	2,216 to 2,222	4	July 1, 1916	1,000	7,000
July 1, 1897	2,357 to 2,360	4	July 1, 1916	1,000	4,000
July 1, 1898	2,501 to 2,505	4	July 1, 1916	1,000	5,000
July 1, 1899	2,615 to 2,617	4	July 1, 1916	1,000	3,000
July 1, 1897	2,361 to 2,364	4	July 1, 1917	1,000	4,000
July 1, 1898	2,506 to 2,510	4	July 1, 1917	1,000	5,000
July 1, 1899	2,618 to 2,620	4	July 1, 1917	1,000	3,000
July 1, 1898	2,511 to 2,515	4	July 1, 1918	1,000	5,000
July 1, 1899	2,621 to 2,623	4	July 1, 1918	1,000	3,000
July 1, 1899	2,624 to 2,625	4	July 1, 1919	1,000	2,000
	Total amount	of City	Loan Bonds	. . .	\$1,030,000

TABLE B. — Sewer Loan Bonds.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomi- nation.	Amount.
July 1, 1894	59	4	July 1, 1900	\$1,000	\$1,000
July 1, 1897	176	4	July 1, 1900	1,000	1,000
July 1, 1898	200	4	July 1, 1900	1,000	1,000
October 1, 1893	42	4½	Oct. 1, 1900	1,000	1,000
July 1, 1894	60	4	July 1, 1901	1,000	1,000
July 1, 1897	177	4	July 1, 1901	1,000	1,000
July 1, 1898	201	4	July 1, 1901	1,000	1,000
October 1, 1893	43	4½	Oct. 1, 1901	1,000	1,000
July 1, 1894	61	4	July 1, 1902	1,000	1,000
July 1, 1897	178	4	July 1, 1902	1,000	1,000
July 1, 1898	202	4	July 1, 1902	1,000	1,000
October 1, 1893	44	4½	Oct. 1, 1902	1,000	1,000
July 1, 1894	62	4	July 1, 1903	1,000	1,000
July 1, 1897	179	4	July 1, 1903	1,000	1,000
July 1, 1898	203	4	July 1, 1903	1,000	1,000
October 1, 1893	45	4½	Oct. 1, 1903	1,000	1,000
July 1, 1894	63	4	July 1, 1904	1,000	1,000
July 1, 1897	180	4	July 1, 1904	1,000	1,000
July 1, 1898	204	4	July 1, 1904	1,000	1,000
October 1, 1893	46	4½	Oct. 1, 1904	1,000	1,000
July 1, 1894	64	4	July 1, 1905	1,000	1,000
July 1, 1897	181	4	July 1, 1905	1,000	1,000
July 1, 1898	205	4	July 1, 1905	1,000	1,000
October 1, 1893	47	4½	Oct. 1, 1905	1,000	1,000
July 1, 1894	65	4	July 1, 1906	1,000	1,000
July 1, 1897	182	4	July 1, 1906	1,000	1,000
July 1, 1898	206	4	July 1, 1906	1,000	1,000
October 1, 1893	48	4½	Oct. 1, 1906	1,000	1,000
July 1, 1894	66	4	July 1, 1907	1,000	1,000
July 1, 1897	183	4	July 1, 1907	1,000	1,000
	Amount	carried	forward . .	. . .	\$30,000

TABLE B.—Sewer Loan Bonds.—Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomina- tion.	Amount.
	Amount	brought forward . .	. . .		\$30,000
July 1, 1898	207	4	July 1, 1907	\$1,000	1,000
October 1, 1893	49	4½	Oct. 1, 1907	1,000	1,000
July 1, 1894	67	4	July 1, 1908	1,000	1,000
July 1, 1897	184	4	July 1, 1908	1,000	1,000
July 1, 1898	208	4	July 1, 1908	1,000	1,000
October 1, 1893	50	4½	Oct. 1, 1908	1,000	1,000
July 1, 1894	68	4	July 1, 1909	1,000	1,000
July 1, 1897	185	4	July 1, 1909	1,000	1,000
July 1, 1898	209	4	July 1, 1909	1,000	1,000
October 1, 1893	51	4½	Oct. 1, 1909	1,000	1,000
July 1, 1894	69	4	July 1, 1910	1,000	1,000
July 1, 1897	186	4	July 1, 1910	1,000	1,000
July 1, 1898	210	4	July 1, 1910	1,000	1,000
October 1, 1893	52	4½	Oct. 1, 1910	1,000	1,000
July 1, 1894	70	4	July 1, 1911	1,000	1,000
July 1, 1897	187	4	July 1, 1911	1,000	1,000
July 1, 1898	211	4	July 1, 1911	1,000	1,000
October 1, 1893	53	4½	Oct. 1, 1911	1,000	1,000
July 1, 1894	71	4	July 1, 1912	1,000	1,000
July 1, 1897	188	4	July 1, 1912	1,000	1,000
July 1, 1898	212	4	July 1, 1912	1,000	1,000
July 1, 1894	72	4	July 1, 1913	1,000	1,000
July 1, 1897	189	4	July 1, 1913	1,000	1,000
July 1, 1898	213	4	July 1, 1913	1,000	1,000
July 1, 1894	73	4	July 1, 1914	1,000	1,000
July 1, 1897	190	4	July 1, 1914	1,000	1,000
July 1, 1898	214	4	July 1, 1914	1,000	1,000
July 1, 1897	191	4	July 1, 1915	1,000	1,000
July 1, 1898	215	4	July 1, 1915	1,000	1,000
July 1, 1897	192	4	July 1, 1916	1,000	1,000
	Amount	carried forward .	. . .		\$60,000

TABLE B. — Sewer Loan Bonds.— Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$60,000
July 1, 1898	216	4	July 1, 1916	\$1,000	1,000
July 1, 1897	193	4	July 1, 1917	1,000	1,000
July 1, 1898	217	4	July 1, 1917	1,000	1,000
July 1, 1897	194	4	July 1, 1918	1,000	1,000
July 1, 1898	218	4	July 1, 1918	1,000	1,000
July 1, 1897	195	4	July 1, 1919	1,000	1,000
July 1, 1898	219	4	July 1, 1919	1,000	1,000
July 1, 1897	196	4	July 1, 1920	1,000	1,000
July 1, 1898	220	4	July 1, 1920	1,000	1,000
July 1, 1897	197	4	July 1, 1921	1,000	1,000
July 1, 1898	221	4	July 1, 1921	1,000	1,000
July 1, 1897	198	4	July 1, 1922	1,000	1,000
July 1, 1898	222	4	July 1, 1922	1,000	1,000
July 1, 1898	223	4	July 1, 1923	1,000	1,000
Total amount	of Sewer Loan	Bonds	under debt	limit .	\$74,000

TABLE B. — Sewer Loan Bonds. — Concluded.

ISSUED UNDER AUTHORITY OF CHAPTER 357, ACTS OF 1895, BEYOND THE LIMIT
FIXED BY LAW.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1895	90 to 93	4	July 1, 1900	\$1,000	\$4,000
July 1, 1895	94 to 97	4	July 1, 1901	1,000	4,000
July 1, 1895	98 to 101	4	July 1, 1902	1,000	4,000
July 1, 1895	102 to 105	4	July 1, 1903	1,000	4,000
July 1, 1895	106 to 109	4	July 1, 1904	1,000	4,000
July 1, 1895	110 to 113	4	July 1, 1905	1,000	4,000
July 1, 1895	114 to 116	4	July 1, 1906	1,000	3,000
July 1, 1895	117 to 119	4	July 1, 1907	1,000	3,000
July 1, 1895	120 to 122	4	July 1, 1908	1,000	3,000
July 1, 1895	123 to 125	4	July 1, 1909	1,000	3,000
July 1, 1895	126 to 128	4	July 1, 1910	1,000	3,000
July 1, 1895	129 to 131	4	July 1, 1911	1,000	3,000
July 1, 1895	132 to 134	4	July 1, 1912	1,000	3,000
July 1, 1895	135 to 137	4	July 1, 1913	1,000	3,000
July 1, 1895	138 to 140	4	July 1, 1914	1,000	3,000
July 1, 1895	141 to 143	4	July 1, 1915	1,000	3,000
July 1, 1895	144 to 146	4	July 1, 1916	1,000	3,000
July 1, 1895	147 to 149	4	July 1, 1917	1,000	3,000
July 1, 1895	150 to 152	4	July 1, 1918	1,000	3,000
July 1, 1895	153 to 155	4	July 1, 1919	1,000	3,000
July 1, 1895	156 to 158	4	July 1, 1920	1,000	3,000
July 1, 1895	159 to 161	4	July 1, 1921	1,000	3,000
July 1, 1895	162 to 164	4	July 1, 1922	1,000	3,000
July 1, 1895	165 to 167	4	July 1, 1923	1,000	3,000
July 1, 1895	168 to 170	4	July 1, 1924	1,000	3,000
July 1, 1895	171 to 173	4	July 1, 1925	1,000	3,000
Total amount	of Sewer Loan	Bonds	under above	Act . .	\$84,000

TABLE B. — City Loan Paving Bonds.

ISSUED UNDER AUTHORITY OF CHAPTER 153, ACTS OF 1892, BEYOND THE
LIMIT FIXED BY LAW.

Date.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
October 1, 1892	36 to 40	4	Oct. 1, 1900	\$1,000	\$5,000
October 1, 1892	41 to 45	4	Oct. 1, 1901	1,000	5,000
October 1, 1892	46 to 50	4	Oct. 1, 1902	1,000	5,000
October 1, 1892	51 to 55	4	Oct. 1, 1903	1,000	5,000
October 1, 1892	56 to 60	4	Oct. 1, 1904	1,000	5,000
October 1, 1892	61 to 65	4	Oct. 1, 1905	1,000	5,000
October 1, 1892	66 to 70	4	Oct. 1, 1906	1,000	5,000
October 1, 1892	71 to 75	4	Oct. 1, 1907	1,000	5,000
October 1, 1892	76 to 80	4	Oct. 1, 1908	1,000	5,000
October 1, 1892	81 to 85	4	Oct. 1, 1909	1,000	5,000
October 1, 1892	86 to 90	4	Oct. 1, 1910	1,000	5,000
October 1, 1892	91 to 95	4	Oct. 1, 1911	1,000	5,000
October 1, 1892	96 to 100	4	Oct. 1, 1912	1,000	5,000
Total amount of		Paving	Bonds		\$65,000

TABLE B. — Water Loan Bonds.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
July 1, 1882	183 to 194	5	July 1, 1900	\$1,000	\$12,000
July 1, 1882	195	5	July 1, 1900	500	500
July 1, 1888	289	4	July 1, 1900	1,000	1,000
July 1, 1896	b451	4	July 1, 1900	1,000	1,000
October 1, 1884	200 to 202	4	Oct. 1, 1900	1,000	3,000
October 1, 1889	343 to 344	4	Oct. 1, 1900	1,000	2,000
October 1, 1890	416 to 417	4	Oct. 1, 1900	1,000	2,000
October 1, 1892	a448 to a458	4	Oct. 1, 1900	1,000	11,000
July 1, 1888	290	4	July 1, 1901	1,000	1,000
July 1, 1896	b452	4	July 1, 1901	1,000	1,000
October 1, 1884	203 to 212	4	Oct. 1, 1901	1,000	10,000
October 1, 1892	a459 to 468	4	Oct. 1, 1901	1,000	10,000
July 1, 1885	214 to 219	4	July 1, 1901	1,000	6,000
October 1, 1889	345 to 346	4	Oct. 1, 1901	1,000	2,000
October 1, 1890	418 to 419	4	Oct. 1, 1901	1,000	2,000
July 1, 1885	220 to 226	4	July 1, 1902	1,000	7,000
July 1, 1886	229 to 238	4	July 1, 1902	1,000	10,000
July 1, 1896	b453	4	July 1, 1902	1,000	1,000
October 1, 1889	347 to 348	4	Oct. 1, 1902	1,000	2,000
October 1, 1890	420 to 421	4	Oct. 1, 1902	1,000	2,000
October 1, 1892	469 to 475	4	Oct. 1, 1902	1,000	7,000
July 1, 1886	239 to 256	4	July 1, 1903	1,000	18,000
July 1, 1896	b454	4	July 1, 1903	1,000	1,000
October 1, 1889	349 to 350	4	Oct. 1, 1903	1,000	2,000
October 1, 1890	448 to 449	4	Oct. 1, 1903	1,000	2,000
July 1, 1886	257 to 266	4	July 1, 1904	1,000	10,000
July 1, 1896	b455	4	July 1, 1904	1,000	1,000
October 1, 1889	351 to 352	4	Oct. 1, 1904	1,000	2,000
October 1, 1890	450 to 451	4	Oct. 1, 1904	1,000	2,000
July 1, 1896	b456	4	July 1, 1905	1,000	1,000
	Amount	carried	forward . .	. . .	\$132,500

TABLE B.—Water Loan Bonds. — Continued.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomi- nation.	Amount.
	Amount brought forward . . .				\$132,500
October 1, 1889	353 to 355	4	Oct. 1, 1905	\$1,000	3,000
October 1, 1890	452 to 453	4	Oct. 1, 1905	1,000	2,000
July 1, 1876	30 to 31	5½	July 1, 1906	5,000	10,000
July 1, 1896	6457	4	July 1, 1906	1,000	1,000
October 1, 1889	356 to 358	4	Oct. 1, 1906	1,000	3,000
October 1, 1890	454 to 455	4	Oct. 1, 1906	1,000	2,000
July 1, 1886	267 to 276	4	July 1, 1907	1,000	10,000
July 1, 1888	291	4	July 1, 1907	1,000	1,000
July 1, 1896	6458	4	July 1, 1907	1,000	1,000
October 1, 1889	359 to 361	4	Oct. 1, 1907	1,000	3,000
October 1, 1890	456 to 457	4	Oct. 1, 1907	1,000	2,000
July 1, 1888	292	4	July 1, 1908	1,000	1,000
July 1, 1896	6459	4	July 1, 1908	1,000	1,000
October 1, 1889	362 to 364	4	Oct. 1, 1908	1,000	3,000
October 1, 1890	458 to 459	4	Oct. 1, 1908	1,000	2,000
July 1, 1888	293	4	July 1, 1909	1,000	1,000
October 1, 1889	365 to 367	4	Oct. 1, 1909	1,000	3,000
October 1, 1890	423 to 424	4	Oct. 1, 1909	1,000	2,000
July 1, 1888	294	4	July 1, 1910	1,000	1,000
October 1, 1889	368 to 370	4	Oct. 1, 1910	1,000	3,000
October 1, 1890	426 to 427	4	Oct. 1, 1910	1,000	2,000
July 1, 1888	295	4	July 1, 1911	1,000	1,000
October 1, 1889	371 to 373	4	Oct. 1, 1911	1,000	3,000
October 1, 1890	428 to 429	4	Oct. 1, 1911	1,000	2,000
July 1, 1888	296	4	July 1, 1912	1,000	1,000
October 1, 1889	374 to 376	4	Oct. 1, 1912	1,000	3,000
October 1, 1890	430 to 431	4	Oct. 1, 1912	1,000	2,000
July 1, 1888	297	4	July 1, 1913	1,000	1,000
October 1, 1889	377 to 379	4	Oct. 1, 1913	1,000	3,000
October 1, 1890	432 to 433	4	Oct. 1, 1913	1,000	2,000
	Amount carried forward . . .				\$207,500

TABLE B. — Water Loan Bonds. — Concluded.

DATE.	Number of Bonds.	Rate per cent. of Interest.	When due.	Denomination.	Amount.
	Amount	brought	forward . .	. . .	\$207,500
July 1, 1888	298	4	July 1, 1914	\$1,000	1,000
October 1, 1889	380 to 382	4	Oct. 1, 1914	1,000	3,000
October 1, 1890	434 to 435	4	Oct. 1, 1914	1,000	2,000
July 1, 1888	299	4	July 1, 1915	1,000	1,000
October 1, 1889	383 to 384	4	Oct. 1, 1915	1,000	2,000
October 1, 1890	436 to 437	4	Oct. 1, 1915	1,000	2,000
July 1, 1888	300	4	July 1, 1916	1,000	1,000
October 1, 1889	385 to 386	4	Oct. 1, 1916	1,000	2,000
October 1, 1890	438 to 439	4	Oct. 1, 1916	1,000	2,000
July 1, 1888	301	4	July 1, 1917	1,000	1,000
October 1, 1889	387 to 388	4	Oct 1, 1917	1,000	2,000
October 1, 1890	440 to 441	4	Oct. 1, 1917	1,000	2,000
July 1, 1888	302	4	July 1, 1918	1,000	1,000
October 1, 1889	389 to 390	4	Oct. 1, 1918	1,000	2,000
October 1, 1890	442 to 443	4	Oct. 1, 1918	1,000	2,000
October 1, 1889	391 to 392	4	Oct 1, 1919	1,000	2,000
October 1, 1890	444 to 445	4	Oct. 1, 1919	1,000	2,000
October 1, 1890	446 to 447	4	Oct. 1, 1920	1,000	2,000
	Total amount	of	Water Loan	Bonds .	\$239,500

Recapitulation.

City Loan Bonds \$1,030,000 00
Sewer Loan Bonds 74,000 00

Total amount of Funded Debt within
the limit provided by law \$1,104,000 00
Sewer Loan Bonds, issued under Chapter
357, Acts of 1895 \$84,000 00
City Loan Paving Bonds, issued under Chap-
ter 153, Acts of 1892 65,000 00

Total amount of Funded Debt outside of
the limit allowed by law, issued
under special Acts 149,000 00
Water Loan Bonds 239,500 00

Total amount of Funded Debt \$1,492,500 00

TABLE C.—STATEMENT OF ACCOUNTS SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DECEMBER 31, 1899.**Appropriations.**

	CREDIT.
Taxes, amount assessed	\$739,800 00
Property and Debt balance	110,000 00
	<hr/>
	\$849,800 00

	DEBIT.
Electrical Department	\$6,800 00
Engineering Department	10,000 00
Fire Department	58,000 00
Fire Department, Fire Station No. 1	1,000 00
Fire Department, Fire Station, Clarendon Hill	4,000 00
Health Department	24,000 00
Highways	40,000 00
Highways, Paving Davis Square	5,000 00
Highways, Paving Washington Street, Tufts Street to Boston Line	10,000 00
Indigent Soldiers and Sailors	500 00
Interest	70,000 00
Miscellaneous	12,000 00
Police	51,000 00
Police Station Incidentals	2,000 00
Powder-house Boulevard	10,000 00
Printing and Stationery	7,000 00
Public Grounds	9,000 00
Public Library	9,000 00
Public Library Addition	15,000 00
Public Grounds, Lincoln Park	10,000 00
Renewals of Funded Debt	15,000 00
Reduction of Funded Debt	74,000 00
Relief and Burial of Indigent Soldiers and Sailors	12,000 00
Salaries	8,000 00
School Contingent	21,000 00
School Contingent, Janitors' Salaries	19,000 00
School Fuel	12,000 00
Schoolhouse, Forster, Improvement	35,000 00
Schoolhouse, Highland, Sanitary Improvement	5,000 00
Schoolhouse Incidentals	18,000 00
School Teachers' Salaries	191,000 00
Sidewalks	10,000 00
Street Lights	50,000 00
Support of Poor	22,000 00
Watering Streets	3,500 00
	<hr/>
	\$849,800 00

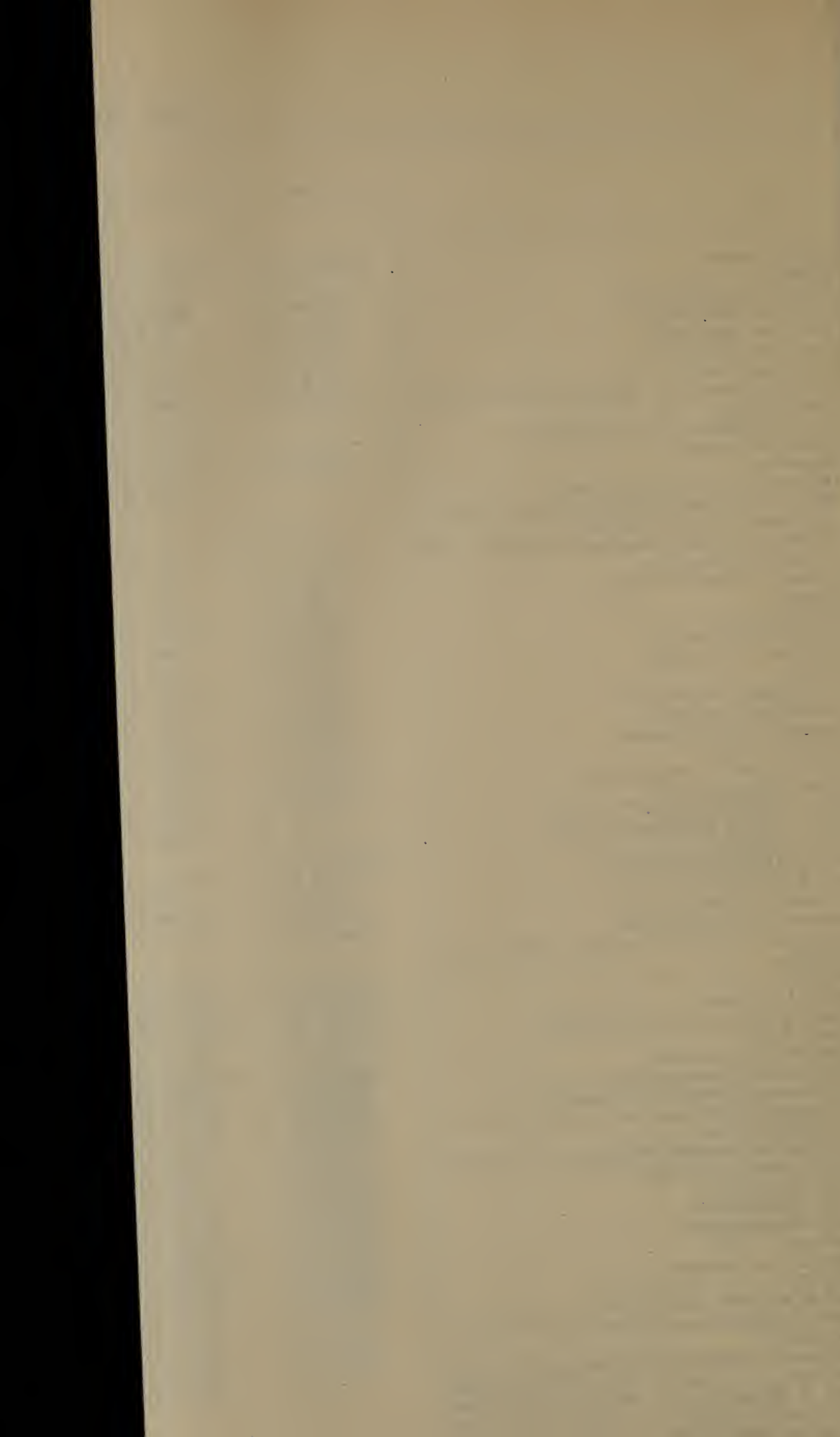
Armory.

	CREDIT.
Balance from 1899	\$10,122 76
Amount carried forward	<hr/>
	\$10,122 76

TRIAL BALANCE AND BALANCE SHEET FOR THE YEAR 1899.

	TOTAL DEBITS.	TOTAL CREDITS.	BALANCES.		EXCESS AND DEFICIENCY.		ASSETS AND LIABILITIES.		CASH RECEIVED.	CASH PAID.
			Debit.	Credit.	Debit.	Credit.	Debit.	Credit.		
Appropriations	\$849,800 00	\$849,800 00							*\$70,376 04	
Armory	10,122 76	10,122 76								
Engineering Department	10,328 41	10,554 52		\$226 11		\$226 11			354 52	\$10,328 41
County of Middlesex	48,923 22	48,923 22								48,923 22
Electrical Department	6,614 14	6,829 34		215 20		215 20			29 34	6,614 14
Excess and Deficiency	16,549 22	16,549 22								
Fire Department	59,743 10	58,856 00	\$887 10		\$887 10				156 00	59,743 10
Fire Department, Fire Station, Clarendon Hill	11,617 28	11,650 00		32 72				\$32 72		11 617 28
Funded Debt	169,500 00	1,662,000 00		1,492,500 00					110,000 00	169,500 00
Fire Department, Fire Station No. 1		1,000 00		1,000 00				1,000 00		
Health Department	27,909 51	25 044 00	2,955 51		2,955 51				1,044 00	27,909 51
Highways	79,210 75	108,682 46		29,171 71				29,471 71	68,682 46	79,210 75
Highways, Paving Davis Square		5,000 00		5,000 00				5,000 00		
Highways, Paving Webster Avenue, Fitchburg										
Railroad to Cambridge Line	253 25	253 25								170 34
Highways, Paving Washington Street, Tufts										
Street to Boston Line	10,031 10	10,248 38		217 28				217 28	248 38	10,031 10
Indigent Soldiers and Sailors	507 00	763 50		256 50		256 50			20 00	507 00
Interest	65,191 73	92,108 05		26,916 32		26,916 32			15,289 52	41,511 73
Miscellaneous	15,327 63	18,790 76		3,472 13		3,472 13			6,771 76	15,327 63
Overlay and Abatement	4,464 80	8,939 69		4,474 89		4,474 89			4 00	68 63
Overplus on Tax Sales	1 359 00	3,027 13		1,668 13				1,668 13	2 870 00	1,359 00
Police	56,262 00	55,013 00	1,249 60		1,249 60				4,013 00	56,262 00
Police Station Incidentals	2,701 67	2,750 00		41 67		41 67			750 00	2,791 67
Printing and Stationery	8,229 58	7,000 00	1,229 58		1,229 58					8,229 58
Property and Debt Balance	110,000 00	1,512,743 14		1,402 743 14						
Public Grounds	10,712 84	10,866 38		153 54		153 54			1,866 38	9,712 84
Public Grounds, Lincoln Park	10,320 14	10,313 31	6 83		6 83				313 31	10,320 14
Public Library	11,728 33	11,728 33		02		02			2,720 95	11,728 33
Public Library, Addition	10,441 97	16,500 00		6,058 03				6,058 03		10,441 97
Public Library, Isaac Pitman Fund		1,000 00		1,000 00				1,000 00		
Public Property	2,895 243 14		2,895,243 14							
Powder-House Boulevard	9,774 32	10,321 30		546 98				546 98	321 30	9,774 32
Real Estate Liens	3,035 30	315 21	2,740 09				\$2,740 09		315 21	
Reduction of Funded Debt	154,500 00	130,408 63	24,091 37				24 091 37		6 809 00	
Renewals of Funded Debt	15,000 00	15,000 00								
Relief and Burial of Indigent Soldiers and										
Sailors	14,030 47	12,354 00	1,676 47		1,676 47				4 00	14,030 47
Salaries	33,968 41	41,831 26		7,862 85		7,862 85			33 831 26	33,968 41
School Contingent	21,178 50	21 261 31		82 81		82 81			261 31	21,178 50
School Contingent, Janitors' Salaries	17,920 30	19,000 00		1,079 70		1,079 70				17,920 30
School Fuel	11,028 14	12,000 00		971 86		971 86				11,028 14
Schoolhouse Incidentals	18,868 71	18,243 36	625 35		625 35				243 36	18,868 71
Schoolhouse, Burns, Addition	19,680 87	19,500 00	180 87					180 87		19,680 87
Schoolhouse, Forster, Improvement	20,603 96	35,000 00		14,396 04				14,396 04		18,753 96
Schoolhouse, Highland, Sanitary Improvement	6,463 05	6,485 01		21 36				21 36	12 25	6,463 05
Schoolhouse, Ward 2	28,358 88	29,121 47		1,362 59				1,362 59		28,358 88
Schoolhouse, Prescott, Heating and Ventilating	2,483 77	2 483 77								2,483 77
School Teacher' Salaries	192,959 90	191,000 00	1,959 90		1,959 90					192 959 90
Sewer Assessments	13,842 83	7,795 85	6,046 98				6,046 98		6,909 42	
Sewers Construction	34,283 28	67,257 18		32,973 90				32,973 90	1,815 23	33,396 85
Sewers Maintenance	9,441 66	9,346 58	95 08		95 08				846 58	9,441 66
Sidewalks	21,011 54	20 887 09	124 45		124 45				920 41	21,008 72
Sidewalk Assessments	15,076 88	11,690 79	3,386 09					3,386 09	11,687 97	
State Aid	10,886 00	10,886 00							93 00	10,886 00
State of Massachusetts	27,075 00	27,075 00								27,075 00
State of Massachusetts, Metropolitan Sewer As-										
essment	42,858 09	42,858 09								42,858 09
Reduction of Funded Debt, Metropolitan Sewer										
Assessment, account of Water Works Income		31,000 00		31,000 00				31,000 00		
State of Massachusetts, Metropolitan Water										
Assessment, balance to credit in account of										
Funded Debt of 1900	20,975 58	23,552 77		2,577 19		2,577 19			2,577 19	20,975 58
State of Massachusetts, Non-resident Bank										
Stock	995 12	995 12								995 12
State of Massachusetts, Burial of Indigent										
Soldiers and Sailors	805 00	455 00	350 00				350 00		455 00	
State of Massachusetts, Indigent Soldiers' and										
Sailors	500 50	269 00	231 50				231 50		269 00	
State of Massachusetts, State Aid	21,641 50	10,972 50	10,669 00				10,669 00		10,972 50	
Street Lights	49,574 51	50,000 00		425 49		425 49				49,574 51
Sundry Persons	23,185 00	52,581 10		29,396 10				29,396 10		23,185 00
Support of Poor, "City Home"	15,409 25	21,410 00		6,000 75				6,000 75	410 00	15 409 25
Support of Poor, Miscellaneous	28,924 39	27,827 49	1,096 99		1,096 99				5,827 40	28,924 39
Taxes	1,238,235 15	850,108 94	388,126 21				388,126 21		844,468 60	
Temporary Loans	700,000 00	1,010,000 00		310,000 00				310,000 00	710,000 00	700,000 00
Water Loan Interest	10,882 50	10,882 50								8,555 00
Water Maintenance	66,776 82	66,026 44		149 62		149 62			16,811 96	66,776 82
Water Services	4,295 95	4,295 95							2 80	4,181 47
Water Service Assessments	4,293 15	4,293 15							4,293 15	
Watering Streets Assessments	16 12	13 24	2 88				2 88		18 24	
Watering Streets	17,827 95	17,882 36		54 41		54 41			388 52	17,827 95
Water Works Extension	19,978 59	20,000 00		21 41		21 41				19,978 59
Water Works Income	214,280 83	214,280 83							214,280 83	
Water Works, Abatements on Water Charges	6,000 00	6,000 00								110 18
Cash	2,160,350 15	2,089,038 03	71,312 12				71,312 12			71,312 12
	\$9,852,571 69	\$9,852,571 69	\$3,414,328 78	\$3,414,328 78	\$11,948 53	\$48,940 05	\$507,137 11	\$470,145 59	\$2,160,350 15	\$2,160,350 15
					136,991 52			136,991 52		
					\$48,940 05	\$48,940 05		\$507,137 11		
Excess and Deficiency			\$11,948 53	\$48,940 05						
Assets and Liabilities			507,137 11	470,145 59						
Public Property			2,895,243 14							
Funded Debt				1 492,500 00						
Property and Debt Balance				1,402,743 14						
			\$3,414,328 78	\$3,414,328 78						

*Balance, 1898.
†Balance.



Amount brought forward \$10,122 76

DEBIT.

Schoolhouse, Burns Addition, account, amount transferred	\$7,500 00	
Schoolhouse, Ward Two, amount trans- ferred	1,500 00	
Schoolhouse, Highland, Sanitary Improve- ment, amount transferred	1,122 76	
		<u>\$10,122 76</u>

Cash.

CREDIT.

Engineering Department	\$10,328 41
County of Middlesex	48,923 22
Electrical Department	6,614 14
Fire Department	59,743 10
Fire Department, Fire Station, Clarendon Hill	11,617 28
Funded Debt	169,500 00
Health Department	27,999 51
Highways	79,210 75
Highways, Paving Webster Avenue, Fitchburg Railroad to Cambridge Line	170 34
Highways, Paving Washington Street, Tufts Street to Bos- ton Line	10,031 10
Indigent Soldiers and Sailors	507 00
Interest	41,511 73
Miscellaneous	15,327 63
Overlay and Abatement	68 63
Overplus on Tax Sales	1,359 00
Police	56,262 60
Police Station Incidentals	2,791 67
Printing and Stationery	8,229 58
Public Grounds	9,712 84
Public Grounds, Lincoln Park	10,320 14
Public Library	11,728 33
Public Library Addition	10,441 97
Powder-house Boulevard	9,774 32
Relief and Burial of Indigent Soldiers and Sailors	14,030 47
Salaries	33,968 41
School Contingent	21,178 50
School Contingent, Janitors' Salaries	17,920 30
School Fuel	11,028 14
Schoolhouse Incidentals	18,868 71
Schoolhouse, Burns, Addition	19,630 87
Schoolhouse, Forster, Improvement	18,753 96
Schoolhouse, Highland, Sanitary Improvement	6,463 65
Schoolhouse, Prescott, Heating and Ventilating	2,483 77
Schoolhouse, Ward Two	28,358 88
School Teachers' Salaries	192,959 90
Sewers, Construction	33,396 85
Sewers, Maintenance	9,441 66
Sidewalks	21,008 72
State Aid	10,886 00
State of Massachusetts	27,075 00
State of Massachusetts, Metropolitan Sewer Assessment	42,858 09
State of Massachusetts, Metropolitan Water Assessment	20,975 58
Amount carried forward	<u>\$1,153,510 75</u>

Amount brought forward	\$1,153,510 75
State of Massachusetts, Non-resident Bank Stock	995 12
Street Lights	49,574 51
Sundry Persons	23,185 00
Support of Poor, "City Home"	15,409 25
Support of Poor	28,924 39
Temporary Loans	700,000 00
Water Loan Interest	8,555 00
Water Maintenance	66,776 82
Water Services	4,181 47
Watering Streets	17,827 95
Water Works Extension	19,978 59
Water Works, Abatements on Water Charges	119 18
Balance to debit in account, 1900	71,312 12
	<hr/>
	\$2,160,350 15

DEBIT.

Balance from 1898	\$70,376 04	
Engineering Department	354 52	
Electrical Department	29 34	
Fire Department	156 00	
Funded Debt	110,000 00	
Health Department	1,044 00	
Highways	68,682 46	
Highways, Paving Washington Street, Tufts Street to Boston Line	248 38	
Indigent Soldiers and Sailors	20 00	
Interest	15,289 52	
Miscellaneous	6,771 76	
Overlay and Abatement	4 00	
Overplus on Tax Sales	2,870 00	
Police	4,013 00	
Police Station Incidentals	750 00	
Public Grounds	1,866 38	
Public Grounds, Lincoln Park	313 31	
Public Library	2,720 95	
Reduction of Funded Debt	6,809 00	
Powder-house Boulevard	321 30	
Real Estate Liens	315 21	
Relief and Burial of Indigent Soldiers and Sailors	4 00	
Salaries	33,831 26	
School Contingent	261 31	
Schoolhouse Incidentals	243 36	
Schoolhouse, Highland, Sanitary Improve- ment	12 25	
Sewer Assessments	6,909 42	
Sewers, Construction	1,815 23	
Sewers, Maintenance	846 58	
Sidewalks	920 41	
Sidewalk Assessments	11,687 97	
State Aid	93 00	
State of Massachusetts, Metropolitan Water Assessment	2,577 19	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	455 00	
State of Massachusetts, Indigent Soldiers and Sailors	269 00	
	<hr/>	
Amounts carried forward	\$352,881 15	\$2,160,350 15

Amounts brought forward	\$352,881 15	\$2,160,350 15
State of Massachusetts, State Aid	10,972 50	
Support of Poor, "City Home"	410 00	
Support of Poor	5,827 40	
Taxes	844,468 60	
Temporary Loans	710,000 00	
Water Maintenance	16,811 96	
Water Services	2 80	
Water Service Assessments	4,293 15	
Watering Streets Assessments	13 24	
Watering Streets	388 52	
Water Works Income	214,280 83	
		<u>\$2,160,350 15</u>

County of Middlesex.

CREDIT.

Taxes, amount assessed	\$48,923 22
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DEBIT.

Cash, paid County Tax	<u>\$48,923 22</u>
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Electrical Department.

CREDIT.

Appropriations, amount assessed		\$6,800 00
Cash, received of W. E. Cassidy, old copper	\$21 94	
John F. Fallon, old copper	7 40	
		<u>29 34</u>
		<u>\$6,829 34</u>

DEBIT.

Cash, paid laborers	\$3,162 50	
Edward Backus, salary as Superintendent of Electric Lines and Lights	1,200 00	
Pettingill Andrews Co., electric supplies	525 79	
W. E. Decrow, batteries	721 83	
W. E. Plumer & Co., batteries	4 10	
Thomas W. Gleeson, wire	47 93	
New England Glass Co., insulators	8 10	
Anchor Electric Co., transmitter, etc.	69 16	
I. H. Brown Moulding Co., wire	1 30	
Frederick A. Swan, relay	4 55	
Ira B. Hersey, cross arms	15 49	
Municipal Signal Co., signal box, etc.	127 50	
Cornelius Callahan Co., gong	19 50	
Chandler & Farquhar, tools	19 35	
F. W. Ainsworth, vitriol	24 75	
Western Electric Co., meter	4 00	
Safety Insulated Wire and Cable Co., wire	23 25	
Underhill Hardware Co., hardware	37 39	
Howe & Flint, hardware	1 30	
Amounts carried forward	<u>\$6,017 79</u>	<u>\$6,829 34</u>

Amounts brought forward	\$6,017 79	\$6,829 34
D. J. Dennett, harness work	33 95	
Charles Waugh & Co., repairs of wagon .	25 75	
Charles L. Underhill, repairs of wagon .	6 45	
C. Caseau, painting	5 50	
E. Howard Watch and Clock Co., repairs of clock	21 95	
Herbert Wood, repairs of tools	40	
Chapman Carriage Co., wagon	225 00	
John L. Crafts, canvas cover	4 00	
Fairbanks & Co., dye stock	9 00	
I. H. Wiley & Co., sponges	18 60	
Charles E. Perry, paper	33 83	
John T. Sellon, glasses	8 00	
Thomas Groom & Co., books	5 58	
Somerville Journal Co., printing	3 75	
The Mitchell Mfg. Co., letters	1 71	
New England Telephone & Telegraph Co., rentals and tolls	10 00	
George H. Maynard, gas pipe	3 05	
F. C. Ayer, lumber	1 98	
Fire Department, board of horse	156 00	
George T. Day, expressing	17 95	
American Express Co., expressing	1 65	
Glines & Co., expressing	15	
Edward Backus, freight	1 55	
Frank L. Draper, freight	55	
	<hr/>	
	\$6,614 14	
Excess and Deficiency, balance to credit of account	215 20	
	<hr/>	
		\$6,829 34

Engineering Department.

CREDIT.

Appropriations, amount assessed	\$10,000 00
Cash, received of Boston Elevated Railway Co., engineering services	\$53 92
Somerville Electric Light Co., engineer- ing services	23 76
Massachusetts Pipe Line Gas Co., giving grade	4 61
Miscellaneous account, labor	26 00
Water Maintenance account, maps	246 23
Interest account, amount transferred . .	200 00
	<hr/>
	554 52
	<hr/>
	\$10,554 52

DEBIT.

Cash, paid Ernest W. Bailey, City Engineer .	\$2,400 00
Engineer's Assistants	7,416 46
Engineer's Assistants, car fares	216 15
Wadsworth, Howland, & Co., paper, etc. .	91 35
B. L. Makepeace, paper	2 95
Thomas Groom & Co., stationery	34 72
	<hr/>
Amounts carried forward	\$10,161 63
	<hr/>
	\$10,554 52

Amounts brought forward	\$10,161 63	\$10,554 52
Frost & Adams Co., stationery	4 68	
Williams, Brown, & Earl, vellum	35	
Charles E. Moss, blue print paper	5 90	
Spaulding Print Paper Co., paper	1 26	
John F. McGowan, instruments	5 00	
Buff & Berger, repairs of instruments	17 90	
William Watson, repairs of instruments	2 00	
Conant Brothers Co., polished plate, etc.	10 10	
F. E. Barnes, map	1 00	
W. W. White & Co., mounting map	8 45	
A. J. Wilkinson & Co., glasses	1 52	
J. H. Brooks, cloth	2 10	
Pinkham & Smith, magnifiers	90	
Library Bureau, cards	1 00	
E. S. Sparrow & Co., tools	1 65	
Whitney & Snow, tools	30 13	
Ernest J. Cambridge, stamps	14 75	
Wilbur P. Rice, lumber	29 29	
New England Telephone and Telegraph Co., toll	25	
I. H. Brown Moulding Co., stakes	22 95	
American Express Co., expressing	2 60	
J. H. Grundy, expressing	2 30	
George H. Towle, expressing	55	
Glines & Co., expressing	15	
	<hr/>	
	\$10,328 41	
Excess and Deficiency, balance to credit of account	226 11	
	<hr/>	
		\$10,554 52

Excess and Deficiency.

CREDIT.

Balance from 1898	\$16,549 22
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DEBIT.

Sewers Construction account, amounted transferred	\$16,549 22
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CREDIT.

Engineering Department, credit balance of account	\$226 11
Electrical Department, credit balance of account	215 20
Indigent Soldiers and Sailors, credit balance of account	256 50
Interest, credit balance of account	26,916 32
Miscellaneous, credit balance of account	3,472 13
Overlay and Abatement, credit balance of account	4,474 89
Public Grounds, credit balance of account	153 54
Public Library, credit balance of account	02
Salaries, credit balance of account	7,862 85
School Contingent, credit balance of account	82 81
School Contingent, Janitors' Salaries, credit balance of ac- count	1,079 70
Metropolitan Water Assessment, credit balance of ac- count	2,577 19
Street Lights, credit balance of account	425 49
Water Maintenance, credit balance of account	149 62
	<hr/>
Amount carried forward	\$47,892 37

Amount brought forward	\$47,892 37
Watering Streets, credit balance of account	54 41
Water Works Extension, credit balance of account	21 41
School Fuel, credit balance of account	971 86
	<hr/>
	\$48,940 05

DEBIT.

Fire Department, debit balance of account	\$887 10
Health Department, debit balance of account	2,955 51
Police, debit balance of account	1,249 60
Police Station Incidentals, debit balance of account	41 67
Printing and Stationery, debit balance of account	1,229 58
Public Grounds, Lincoln Park, debit balance of account	6 83
Relief and Burial of Indigent Soldiers and Sailors, debit balance of account	1,676 47
Schoolhouse Incidentals, debit balance of account	625 35
School Teachers' Salaries, debit balance of account	1,959 90
Sewers, Maintenance, debit balance of account	95 08
Sidewalks, debit balance of account	124 45
Support of Poor, debit balance of account	1,096 99
	<hr/>
	\$11,948 53
Balance to credit in account, 1900	36,991 52
	<hr/>
	\$48,940 05

Fire Department.

CREDIT.

Appropriations, amount assessed	\$58,000 00
Cash, received of Electrical Department, horse keeping	\$156 00
Interest account, amount transferred	700 00
	<hr/>
	856 00
	<hr/>
	\$58,856 00
Excess and Deficiency, balance to debit of account	887 10
	<hr/>
	\$59,743 10

DEBIT.

Cash, paid James R. Hopkins, chief engineer	\$1,800 00
Nathaniel C. Barker, assistant engineer	600 00
Permanent firemen and substitutes	28,784 92
Steamer Co. No. 1, callmen	1,330 75
Steamer Co. No. 2, callmen	1,283 92
Steamer Co. No. 4, callmen	1,289 08
Hose Co. No. 2, callmen	1,323 25
Hose Co. No. 3, callmen	1,268 25
	<hr/>
Amounts carried forward	\$37,680 17
	<hr/>
	\$59,743 10

Amounts brought forward	\$37,680 17	\$59,743 10
Hose Co. No. 5, callmen	1,275 50	
Hose Co. No. 6, callmen	212 50	
Hook and Ladder Co. No. 1, callmen . .	1,685 75	
Hook and Ladder Co. No. 2, callmen . .	1,620 89	
W. J. Kennedy, extra fire duty	9 10	
Luther Bickers, extra fire duty	2 00	
J. Conceeny, extra fire duty	2 00	
Le Barron Emery, extra fire duty	2 00	
John H. Ford, extra fire duty	4 00	
Robert Jesson, extra fire duty	2 00	
Martin Lacey, extra fire duty	4 00	
W. F. Webber, extra fire duty	2 00	
Clarence H. Alley, extra fire duty	2 00	
Fred Jensen, extra fire duty	4 00	
George R. Dale, extra fire duty	2 00	
William H. Wheaton, extra fire duty . .	2 00	
John Givan, extra fire duty	2 00	
Charles E. Shaw, extra fire duty	2 00	
C. H. Timson, extra fire duty	8 00	
Lord & Webster, hay and straw	1,333 95	
C. A. Slager, hay and straw	437 23	
Fulton O'Brien, hay and grain	584 85	
G. W. Ladd Co., hay and grain	124 92	
Powers & Co., hay	173 28	
Gilmore, Smith, & Co., hay	131 84	
Nathan Tufts & Sons, grain	481 84	
M. E. Crouse, horseshoeing	137 15	
I. B. Walker, horseshoeing, etc. . . .	177 55	
W. H. Richardson, horseshoeing, etc. . .	147 80	
John B. Rufer, horseshoeing, etc. . . .	293 46	
William Buckley, horseshoeing, etc. . .	60 35	
J. H. Thompson, horseshoeing, etc. . . .	44 50	
Edward O'Brien, horseshoeing, etc. . .	35 80	
A. Clement, horseshoeing, etc. . . .	34 60	
P. F. Thompson, horseshoeing	4 80	
P. J. Kinneen, horseshoeing	3 25	
S. D. Hicks & Son, repairs of apparatus .	21 93	
Miller & Shaw, repairs of apparatus . .	3 25	
Charles Waugh, repairs of apparatus . .	34 63	
E. Teel & Co., repairs of apparatus . .	82 80	
L. A. Wright, repairs of apparatus . . .	58 55	
Charles River Iron Works, repairs of apparatus	14 61	
Charles E. Berry, repairs of apparatus . .	366 71	
American Fire Engine Co., repairs of ap- paratus	197 60	
Joseph Palmer, repairs of apparatus . .	6 75	
Pettingill Andrews Co., electrical sup- plies	3 94	
Thomas W. Gleeson, electrical supplies .	8 89	
Braman, Dow, & Co., fittings	10 14	
John Bartlett, fittings	2 59	
Charles R. Luce & Co., tools	15 00	
Boston Automatic Fire Alarm Co., in- struments	6 00	
American Tube Works, sliding pole . . .	11 97	
W. H. Banfil, extinguishers	42 00	
Defender Fire Extinguisher Co., extin- guishers	30 00	
Amounts carried forward	<u>\$47,648 49</u>	<u>\$59,743 10</u>

Amounts brought forward	\$47,648 49	\$59,743 10
John L. Crafts, canvas cover	6 50	
James F. Connell, whips	6 30	
Enoch Robinson, bolts	16 15	
William H. Josselyn, swinging bits . .	100 00	
Boston Woven Hose & Rubber Co., hose, etc. . . .	178 25	
Boston Belting Co., hose, etc. . . .	79 20	
Henry K. Barnes, hose, etc. . . .	112 75	
Fabric Fire Hose Co., hose, etc. . . .	195 00	
Revere Rubber Co., hose	686 00	
Percy S. Rogers & Co., nozzle	4 00	
Chelmsford Foundry Co., iron	2 00	
F. S. Hayward & Co., receptacles . . .	60 00	
J. T. Macneill, harness work	19 90	
E. Spalding, harness work	24 55	
D. J. Bennett, harness work	108 55	
Ford & Dennen, snaps	12 00	
Hill & Hill, hooks, etc. . . .	23 87	
H. F. Brackett, carpentering	203 14	
J. M. Andrews & Co., carpentering . .	287 04	
G. D. B. Robinson, carpentering . . .	131 14	
Armstrong Brothers, repairs of building .	12 57	
Thomas McNee, repairs of roof	61 03	
Somerville Brush & Mop Co., dusters . .	10 00	
Cornelius Callahan, lanterns, etc. . .	211 28	
A. J. Tuttle, rope	5 32	
I. H. Wiley & Co., sponges	12 00	
Eastern Salt Co., salt	3 00	
E. Schuebeler, sheets	43 46	
Charles S. Lombard, cotton	4 15	
Fire Department Publishing Co., book .	5 00	
F. W. Barry, Beale, & Co., book . . .	8 00	
Thomas Groom & Co., stamp	6 00	
Somerville Journal Co., printing . . .	27 50	
Somerville Citizen Co., printing . . .	7 25	
Jacob Bean & Co., repairs of boiler . .	176 81	
W. A. Snow & Co., stable supplies . . .	82 00	
Randall Mfg. Co., curry combs	1 50	
Mills Brothers & Co., chamois	10 00	
Mitchell Mfg. Co., badges	11 25	
Oak Hall Clothing Co., regalia	39 51	
Scovell Mfg. Co., brushes	16 88	
A. F. McMillan, repairs of stove . . .	9 71	
Kimball Mfg. Co., labor	1 00	
P. Bowdren, labor	1 50	
T. Allen, concreting	70 00	
George H. Maynard, plumbing	9 40	
Pierce & Pierce, plumbing	3 50	
J. B. Carr, setting glass	2 00	
M. Buttmer, mason work	63 19	
West & Jenney, drugs	106 20	
Henry D. Padelford, drugs	8 20	
Charles S. Lombard, bandages	5 18	
Hub Chemical Co., disinfectant	13 33	
John G. Lesure, horse medicine	20 00	
C. H. Paine, horse medicine	10 00	
George E. Grover, horse medicine . . .	50	
Charles R. Simpson, veterinary services .	47 75	
Amounts carried forward	\$51,030 80	\$59,743 10

Amounts brought forward	\$51,030 80	\$59,743 10
James C. Taylor, repairs of blankets	1 00	
Derby Desk Co., stock	1 50	
George E. Wyman, repairs of clock	9 50	
Globe Gaslight Co., repairs of torch	50	
Andrew A. Lamont, rubber tires	52 00	
Hale & Mayhew Co., setting tires	2 50	
Continental Grate Co., grate	25 00	
George F. Hughes, glass	2 37	
Arthur L. Rea, shades	21 67	
C. C. Bailey & Co., rugs	9 00	
Combination Ladder Co., landing pads	24 00	
Isaac Coffin & Co., packing	90	
George M. Nickerson, repairs of steam pipe	16 50	
E. S. Sparrow & Co., hardware	40 83	
Underhill Hardware Co., hardware	28 03	
Whitney & Snow, hardware	11 78	
W. E. Plumer & Co., hardware	32 09	
Howe & Flint, hardware	55 83	
Charles L. Underhill, tools, etc.	21 25	
H. Wood, repairs of lock	1 55	
Elijah Walker, lock	3 00	
N. F. Underwood, keys	1 00	
James Woodard, tools	15 00	
H. W. Burgess, oil	16 69	
W. H. Bullard, oil	45 93	
John H. Givan, oil	1 35	
Leonard & Co., oil	1 15	
A. F. Carpenter, oil	6 40	
J. A. Durell, oil, etc.	13 06	
James Bartley, oil	3 60	
King & Co., oil	3 90	
Stovine Mfg. Co., polish	10 80	
John T. Sellon, paint	1 00	
Holcomb & Hoke Mfg. Co., brushes	12 00	
W. G. Hallock, brooms	23 52	
Leander Barber, brooms	15 75	
Frank E. Fitts Mfg. & Supply Co., waste	24 01	
Oliver Whyte & Co., baskets	18 00	
Hall Mfg. Co., axe handles	7 00	
Wellington-Wild Coal Co., fuel	1,138 74	
F. D. Weld, ladders	136 75	
Highland Coal Co., cement	83	
I. H. Brown Moulding Co., lumber	24 55	
Wilbur P. Rice, lumber	26 71	
F. C. Ayer, lumber	4 89	
John M. Woods & Co., lumber	26 85	
Charlestown Gas & Electric Co., gas	43 41	
Cambridge Gaslight Co., gas	102 35	
Somerville Electric Light Co., lighting	586 87	
New England Telephone & Telegraph Co., rentals and tolls	173 92	
City of Somerville, sidewalk assessment	27 14	
City of Somerville, water for hydrants	4,172 00	
City of Somerville, water for houses	352 14	
Cambridge Ice Co., ice	25 71	
Fresh Pond Ice Co., ice	73 56	
Boston Ice Co., ice	6 00	
Amounts carried forward	\$58,534 18	\$59,743 10

Amounts brought forward	\$58,534 18	\$59,743 10
Winter-hill Ice Co., ice	6 00	
Mrs. Calvert, washing	151 42	
Mrs. Loveiand, washing	64 87	
Irving C. Jackson, washing	32 44	
Irving C. Jackson, salary	45 92	
Charles H. Stevens, washing	49 38	
Mrs. E. F. Trefren, washing	39 75	
A. M. Spike, washing	34 48	
Louis H. Carr, washing	1 27	
Boston & Suburban Laundry, washing .	81	
Heywood Brothers & Wakefield Co., fur- niture	15 00	
Eugene Mead, carriage hire	7 00	
David W. Crocker, carriage hire	7 00	
A. M. Prescott, use of horses	20 00	
Welch & Hall, horse	140 00	
L. H. Brockway, exchanging horse . . .	45 00	
Stillman H. Libby, premium of insur- ance	37 50	
Charles S. Robertson, premium of insur- ance	236 25	
J. R. Fenelon & Co., premium of insur- ance	7 50	
W. V. T. Hinckley, premium of insur- ance	150 00	
L. B. Pillsbury, premium of insurance .	75 00	
George T. Day, expressing	20 70	
American Express Co., expressing . . .	3 90	
Glines & Co., expressing	5 55	
John H. Grundy, expressing	8 20	
Gilman Express Co., expressing	3 38	
E. R. Perham, expressing	60	
		<u>\$59,743 10</u>

Fire Department, Fire Station, Clarendon Hill.

CREDIT.

Balance from 1898	\$7,650 00
Appropriations, amount appropriated by borrowing on Funded Debt account	4,000 00
	<u>\$11,650 00</u>

DEBIT.

Cash, paid Loring & Phipps, services as architects	\$373 45	
Ezra T. Merrill, on account of contract .	7,445 50	
W. E. Decrow, gong, striker, etc. . . .	1,105 00	
George M. Nickerson, gas and electric fixtures	104 45	
Stewart & Pownall, switch	20 00	
F. Bryant & Co., electric switches . . .	33 00	
Cornelius Callahan Co., landing pads .	30 00	
Eagle Cornice & Skylight Works, sky- light	50 00	
Safety Insulated Wire & Cable Co., cable	26 80	
Amounts carried forward	<u>\$9,188 20</u>	<u>\$11,650 00</u>

Amounts brought forward	\$9,188 20	\$11,650 00
C. W. H. Moulton & Co., step ladders	59 50	
Cambridge Gaslight Co., gas piping	5 89	
James F. Davlin, pipe	10 92	
Thomas W. Gleeson, electric work	7 50	
S. F. Hayward, receptacles	60 00	
Somerville Electric Light Co., lamp	90	
Pettingill Andrews Co., push buttons	18 88	
Jacob Bean & Co., heater, etc.	52 74	
Standard Wire Mattress Co., beds	27 00	
Jordan, Marsh, & Co., sheets	42 80	
G. W. Sammet & Son, pillows, blankets, etc.	62 80	
Charles W. Allen, furniture	69 25	
W. B. Badger & Co., desk	24 50	
Conant Brothers Co., mirrors	9 70	
Charles Waugh, hose wagon	449 00	
John B. Rufer, wheels, etc.	200 00	
Charles E. Berry, harness	147 10	
D. J. Bennett, harness	72 70	
John L. Crafts, roping tower	150 00	
L. H. Brockway, horse	175 00	
Welch & Hall, horse	160 00	
New England Telephone & Telegraph Co., rentals and tolls	13 50	
Highways account, driveway	570 72	
Public Grounds, Lincoln Park account, grading	24 75	
Sewers Maintenance account, labor	13 93	
	<hr/>	
	\$11,617 28	
Balance to credit of account, 1900	32 72	
	<hr/>	
		\$11,650 00
		<hr/>

Fire Department, Fire Station No. 1.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$1,000 00
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DEBIT.

Balance to credit in account, 1900	\$1,000 00
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Funded Debt.

CREDIT.

Balance from 1898	\$1,552,000 00
Cash, received from sale of City Loan bonds Nos. 2516 to 2625	110,000 00
	<hr/>
	\$1,662,000 00

DEBIT.

Cash, paid Sundry Persons:—	
City Loan Bonds Nos. 1620 to 1628	\$9,000 00
City Loan Bonds Nos. 1791 to 1809	19,000 00
	<hr/>
Amounts carried forward	\$28,000 00
	\$1,662,000 00

Amounts brought forward . . .	\$28,000 00	\$1,662,000 00
City Loan Bonds Nos. 2078 to 2087 . . .	10,000 00	
City Loan Bonds Nos. 2234 to 2244 . . .	11,000 00	
City Loan Bonds Nos. 2365 to 2375 . . .	11,000 00	
City Loan Bonds Nos. 994 to 1002 . . .	9,000 00	
City Loan Bonds Nos. 1083 to 1092 . . .	10,000 00	
City Loan Bonds Nos. 1135 to 1138 . . .	4,000 00	
City Loan Bonds Nos. 1196 to 1202 . . .	7,000 00	
City Loan Bonds Nos. 1445 to 1468 . . .	24,000 00	
City Loan Bonds Nos. 1294 to 1303 . . .	10,000 00	
Sewer Loan Bond No. 58 . . .	1,000 00	
Sewer Loan Bond No. 175 . . .	1,000 00	
Sewer Loan Bond No. 199 . . .	1,000 00	
Sewer Loan Bonds Nos. 86 to 89 . . .	4,000 00	
Sewer Loan Bond No. 41 . . .	1,000 00	
City Loan Paving Bonds Nos. 31 to 35 . . .	5,000 00	
Water Loan Bonds Nos. 167 to 181 . . .	15,000 00	
Water Loan Bond No. 182 . . .	500 00	
Water Loan Bond No. 288 . . .	1,000 00	
Water Loan Bond No. 6450 . . .	1,000 00	
Water Loan Bonds Nos. 330 to 342 . . .	13,000 00	
Water Loan Bonds Nos. 409 to 410 . . .	2,000 00	
	<u>\$169,500 00</u>	
Balance to credit in account of 1900 . . .	1,492,500 00	<u>\$1,662,000 00</u>

Health Department.

CREDIT.

Appropriations, amount assessed . . .		\$24,000 00
Cash, received of Hannibal S. Pond, offal . . .	\$1,000 00	
William P. Mitchell, permits to keep swine and collect grease . . .	44 00	
	<u>1,044 00</u>	
		<u>\$25,044 00</u>
Excess and Deficiency, balance to debit of account . . .		2,955 51
		<u>\$27,999 51</u>

DEBIT.

Cash, paid Caleb A. Page, salary as in- specter . . .	\$1,200 00	
Caleb A. Page, car fares . . .	26 65	
Sundry persons, burying animals . . .	87 50	
George W. S. Huse, salary as Superin- tendent . . .	900 00	
Laborers . . .	19,920 83	
M. E. Crouse, horseshoeing . . .	154 40	
Edward O'Brien, horseshoeing . . .	196 63	
Ira L. Roberts, horseshoeing . . .	50 76	
George McDonald, horseshoeing . . .	2 38	
J. A. Durell, tools . . .	95 08	
D. J. Bennett, harness work . . .	300 00	
John Fisher, offal tubs . . .	21 60	
Hill & Hill, covers . . .	97 46	
	<u>\$23,053 29</u>	
Amounts carried forward . . .		<u>\$27,999 51</u>

Amounts brought forward	\$23,053 29	\$27,999 51
A. F. Lohnes & Co., pungs and repairs	558 35	
Charles L. Underhill, repairs of carts	107 55	
The Hale & Mayhew Co., repairs of carts	245 65	
Nathan Tufts & Sons, hay and grain	1,627 93	
Fulton O'Brion, hay and grain	436 07	
R. W. Willey & Co., hay	376 57	
Gilmore, Smith, & Co., hay	487 10	
Wellington-Wild Coal Co., fuel	20 48	
Milton H. Plummer, peppermint tubes	13 10	
West & Jenney, sulphur	3 00	
New England Vaccine Co., virus	22 19	
J. Frank Gear, virus	1 90	
Whitney & Snow, oil	26 52	
Solshine Mfg. Co., polish	3 00	
C. C. Cooper, liniment	1 50	
Melvin & Badger, regenerator	27 50	
A. E. Wallis, repairs of regenerator	2 00	
Boston Harness Dressing Co., soap	8 40	
Citizen Co., printing	12 25	
Somerville Journal Co., printing	17 50	
Thomas Groom & Co., book and stationery	85 75	
George H. Walker, maps	45 00	
Charles M. Berry, labor	11 80	
C. A. Southwick, labor	2 00	
Bridget Cotter, labor	6 75	
Margaret McCabe, labor	5 25	
Mary Kemp, labor	7 50	
Kate Sullivan, labor	6 00	
Charles Booth, hired team	48 38	
Somerville Electric Light Co., lighting	49 53	
Welch & Hall, horses	300 00	
Emma F. Locke, buggy	125 00	
T. A. Murley, lettering carts	7 00	
H. A. Thomas, rent of P. O. box	4 00	
Ernest J. Cambridge, stamps	50 00	
City of Somerville, water	69 75	
W. H. Way, veterinary services	10 00	
Dr. T. B. Shedd, medical advice	25 00	
Isaac B. Kendall, premium of insurance	30 00	
Charles S. Robertson, premium of insurance	50 00	
C. H. Crane, expressing	8 80	
Glines & Co., expressing	15	
	<hr/>	\$27,999 51

Highways.

CREDIT.

Appropriations, amount assessed		\$40,000 00
Cash, received of Metropolitan Water Board, repairs	\$24 35 ⁰⁰	
J. Whiton, driveway	7 75	
Carrie A. French, driveway	15 00	
Jeremiah Sullivan, driveway	4 25	
	<hr/>	
Amounts carried forward	\$51 35	\$40,000 00

Amounts brought forward	\$51 35	\$40,000 00
Lawrence Cotter, driveway	23 75	
Martha E. Belding, driveway	4 25	
Laura M. Tesson, driveway	4 00	
Robert A. Miner, driveway	2 50	
Charles Linnehan, driveway	4 25	
J. C. H. Snow, driveway	14 61	
John Wilson, driveway	20 00	
B. Mullin, driveway	10 00	
Fred Lund, driveway	6 80	
Fitchburg Railroad Co., setting edge- stones	246 16	
A. W. Forbush, repairs sidewalk	5 00	
J. Frank Wellington, repairs sidewalk	54 94	
J. H. Gould, repairs sidewalk	8 00	
W. A. Murtfeldt Co., ashes	42 35	
George B. Pitcher, crushed stone	3 00	
A. C. Aldrich, crushed stone	6 63	
J. F. Currant, crushed stone	93	
Charles I. Wood, crushed stone	1 68	
C. E. Giles, crushed stone	75	
Samuel T. Littlefield, crushed stone	1 50	
George H. Lowe, cinders	16 00	
Osgood & Hart, old iron	93 50	
Massachusetts Pipe Line Gas Co., labor	108 20	
New England Telephone & Telegraph Co., labor	111 00	
Charles H. Lunn, horse	25 00	
John Fannon, horse	40 00	
D. M. Smith, old cart	10 00	
Thomas Ormand, rent	72 00	
Arthur Murley, rent	64 00	
Commonwealth of Massachusetts, street railway tax	60,510 20	
Sidewalks account, city teams, etc. . . .	2,834 15	
Fire Department, Fire Station, Claren- don Hill, labor	570 72	
Sewers, Construction account, repairs	199 05	
Schoolhouse Incidentals account, crushed stone	6 30	
Public Grounds account, crushed stone	118 86	
Water Works Extension account, setting edgestones	139 06	
Public Grounds, Lincoln Park account, labor	3,251 97	
	<hr/>	68,682 46
		<hr/>
		\$108,682 46

DEBIT.

Cash, paid laborers' pay-rolls	\$47,155 48	
John P. Prichard, salary as superintend- ent of streets	1,600 00	
Freight	18 40	
Eugene Mead, board of Superintendent's horse	281 86	
City of Medford, one-half cost of main- taining Middlesex-avenue bridge	941 99	
Town of Wakefield, taxes	61 76	
	<hr/>	
Amounts carried forward	\$50,059 49	\$108,682 46

Amounts brought forward	\$50,059 49	\$108,682 46
Esau Cooper, horses	640 00	
H. H. Stewart, horse	135 00	
Mrs. M. A. Heffernan, horse	125 00	
C. Everett Giles, horse	90 00	
Frank Buttmer, stone	1,354 94	
William J. McCarthy, stone	844 26	
E. B. Parker, stone	199 74	
William F. Cargill, stone	452 00	
John Connors, stone	494 61	
Patrick Leonard, stone	6 45	
William H. Lenox, stone	710 08	
M. E. Mills, stone	9 51	
Mary J. Shean, stone	7 55	
Charles Booth, stone	298 13	
Frank McDermott, stone	1 41	
Andrew Kennedy, stone	377 49	
Coleman Brothers, stone	1,818 36	
Harrison Mitchell, stone	429 35	
Boston Elevated Railway Co., stone	138 28	
W. B. Parker, stone	7 74	
F. E. Chandler, stone	42 46	
Timothy O'Keefe, stone	86 17	
T. B. Munroe, stone	12 75	
T. Allen, stone	14 58	
J. H. Fannon, stone	92 42	
Michael Kelley, stone	20 61	
Portland Stone Ware Co., cement and brick	665 70	
W. G. Nash, cement	53 65	
Highland Coal Co., cement	7 50	
John Silk, gravel	10 80	
F. S. Cummings, sand	9 00	
P. Lacey, sand	7 00	
Emma A. Lincoln and S. A. and Ells- worth Fiske, filling	25 00	
Richard Falvey, hired teams	22 50	
Martin Gill, hired teams	22 50	
D. M. Smith, hired teams	210 31	
F. C. Ayer, lumber	260 97	
John M. Woods & Co., lumber	33 20	
T. E. Littlefield, lumber	7 69	
New Hampshire Lumber Co., lumber .	2 79	
I. H. Brown Moulding Co., lumber . .	60	
W. A. Sanborn, brick	1,299 39	
Eastern Paving Brick Co., brick . . .	900 56	
Thomas Casey, brick	3 58	
S. & R. J. Lombard, edgestones . . .	1,033 68	
Benjamin F. Anthony & Son, repairs of road roller	74 30	
O. S. Kelley Co., repairs of road roller	73 25	
Waters Governor Co., repairs of road roller	2 55	
Good Roads Machine Co., repairs of road roller	37 30	
Buffalo Pitts Co., repairs of road roller	14 00	
The Hale & Mayhew Co., repairs of wagons	126 65	
Thomas O. Hill, repairs of wagons . .	17 25	
Amounts carried forward	\$63,390 10	\$108,682 46

Amounts brought forward . . .	\$63,390 10	\$108,682 46
Walter W. Field, repairs of crusher . .	13 90	
Roberts Iron Works Co., repairs of crusher	30 79	
Richards & Co., repairs of crusher . .	7 02	
Miller & Shaw, repairs of crusher . .	1 95	
N. E. Fitz & Co., horses	80 20	
Joseph Breck & Sons, hands carts, etc. .	43 93	
Braman, Dow, & Co., repairs of boiler, etc.	54 37	
Jarvis Engineering Co., repairs of heater .	10 20	
D'Este & Seeley Co., repairs	1 00	
Lord & Webster, hay and grain . . .	2,354 27	
Nathan Tufts & Son, hay and grain . .	1,707 35	
Hosmer, Robinson, & Co., hay and grain	513 44	
Otis S. Brown & Co., hay and grain . .	306 10	
Fulton O'Brien, hay and grain . . .	267 69	
Gilmore, Smith, & Co., hay and grain . .	131 19	
Scott & Bridge, hay and grain	160 18	
W. M. Hadley, hay and grain	250 79	
Wellington-Wild Coal Co., fuel	773 41	
New England Gas & Coke Co., coke . .	6 34	
George McDormand, horseshoeing . . .	257 63	
Edward O'Brien, horseshoeing	234 25	
I. B. Walker, horseshoeing	171 66	
A. Clement, horseshoeing	85 98	
A. C. Abbott, horseshoeing	29 13	
William Buckley, horseshoeing	8 00	
William Flaherty, horseshoeing	1 33	
John Rooney & Son, horseshoeing . . .	2 35	
P. J. Kinneen, horseshoeing	11 90	
Seward Dodge, horseshoeing	1 50	
W. H. Richardson, horseshoeing	7 00	
John B. Rufer, horseshoeing	50	
Frank Hersey, forcite	14 30	
D. McDonald, harness work	118 83	
Morgan & Bond, harness work	429 00	
A. J. Wellington, elevator bucket . . .	108 00	
Star Brass Mfg. Co., condenser	75	
Edwin Allen, lubricator	25 00	
John P. Squire & Co., salt	1 81	
Charles A. Small & Co., ginger, etc. . .	6 80	
Leonard & Ellis, oil	84 30	
P. Sutherland & Co., oil	21 00	
Charles A. Claflin & Co., oil	21 87	
I. H. Wiley & Co., paint	55 26	
Boston Harness Dressing Co., soap . .	3 00	
Walworth Mfg. Co., packing	41 80	
Boston Belting Co., packing	116 46	
George H. Sampson, packing	2 55	
Boston Bolt Co., bolts	4 85	
W. L. Snow, tools	9 77	
W. E. Plumer & Co., tools	27 33	
Underhill Hardware Co., shovels, etc. .	48 16	
Dodge, Haley, & Co., shovels, etc. . .	325 57	
A. W. Isele & Son, hammers	25 00	
Ames Plow Co., plows	97 06	
Page Brothers & Co., brackets	25 75	
Amounts carried forward	\$72,529 67	\$108,682 46

Amounts brought forward	\$72,529 67	\$108,682 46
E. A. Carlisle, Pope, & Co., windows	2 68	
Higgins Brothers, plumbing	22 23	
James F. Davlin, plumbing	9 25	
J. W. Howard, shrubs	2 25	
J. H. Bath, shrubs	28 80	
Oliver Whyte & Co., screen bottoms	13 88	
Henry C. Hunt Co., leather	3 17	
Fayette Shaw Leather Co., leather	2 60	
New England Broom Co., brooms	41 00	
Edson Mfg. Co., broom sweeper	28 00	
S. Armstrong & Co., barrels	18 00	
George H. Lowe, street crossings	78 12	
C. S. Rawson, street signs	60 00	
James Rawson, signs	151 73	
Thomas Groom & Co., stationery, etc.	45 33	
Allen Brothers, stamps	1 30	
Somerville Journal Co., advertising	173 00	
Somerville Citizen Co., advertising	114 50	
C. H. Crane, liniment	2 50	
Thomas Hollis Co., drugs	10 00	
George C. Goodwin, horse medicine	4 00	
Herbert E. Bowman, horse medicine	3 76	
William H. Hitchings, veterinary services	44 00	
C. H. Paine, veterinary services	40 00	
Henry D. Padelford, oil	1 00	
The Fairbanks Co., repairing scales	24 87	
Priest, Page, & Co., cleaning scales	2 35	
John H. Williams, blankets	75 02	
A. M. Woods Co., calks, etc.	206 45	
Falls Rivets & Machinery Co., pulleys	20 50	
Henry C. Hunt Co., lacings	6 34	
Eagle Oil & Supply Co., springs	55	
Birch Brothers, labor	2 50	
City of Somerville, water	160 50	
City of Somerville, sidewalk assessment	65 16	
Somerville Electric Light Co., lighting	142 66	
New England Telephone & Telegraph Co., rentals and tolls	48 65	
George O. W. Servis, photographs	1 00	
H. Wood, filing saws	18 70	
Farrel Foundry & Machine Co., screen for crusher	412 00	
George E. Ricker, refreshments	16 00	
Harry A. True, premium of insurance	50 00	
B. G. Rogers, premium of insurance	140 00	
Charles S. Robertson, premium of insurance	50 00	
American Express Co., expressing	5 35	
E. R. Perham, expressing	14 65	
Gilman Express Co., expressing	1 65	
Glines & Co., expressing	50	
Robert Burlen, binding plans	19 25	
Margaret E. Quirk, compensation for damages	276 59	
George W. Southward, Guardian, compensation for damages	1,500 00	
Amounts carried forward	\$76,692 01	\$108,682 46

Amounts brought forward	\$76,692 01	\$108,682 46
Mary W. Knowles, compensation for damages	404 00	
Lucy F. Stephens, compensation for land damages	475 00	
Sarah M. Story, compensation for land damages	235 66	
Whitney & Snow, tools	149 14	
E. S. Sparrow & Co, tools	40 72	
T. A. Sallaway, hardware	19 54	
James McCusker, hammers	7 50	
John Cutter, harness work	5 15	
Highways, Paving Washington Street account, stone	248 38	
Sidewalks account, labor and brick	235 21	
H. A. Hanscom & Co., stone	698 44	
	<hr/>	
	\$79,210 75	
Balance to credit in account, 1900	29,471 71	
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		<u>\$108,682 46</u>

Highways, Paving Davis Square.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$5,000 00
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DEBIT.

Balance to credit in account, 1900	<u>\$5,000 00</u>
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Highways, Paving Webster Avenue, Fitchburg Railroad to Cambridge Line.

CREDIT.

Balance from 1898	\$253 25
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DEBIT.

Cash, paid Patrick McGovern, on account of contract	\$170 34
Sidewalks account, amount transferred	82 91
	<hr/>
	<u>\$253 25</u>

Highways, Paving Washington Street, Tufts Street to Boston Line.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$10,000 00
Cash, received of Highways account round stone	248 38
	<hr/>
Amount carried forward	<u>\$10,248 38</u>

Amount brought forward		\$10,248 38
DEBIT.		
Cash, paid laborers	\$168 15	
S. & R. J. Lombard, paving blocks	5,439 00	
S. & R. J. Lombard, flagging	358 38	
Patrick McGovern, on account of con-		
tract	4,036 72	
Patrick McGovern, extra work	16 85	
Mary Follett, typewriting	12 00	
	<hr/>	
	\$10,031 10	
Balance to credit in account, 1900	217 28	
	<hr/>	
		<u>\$10,248 38</u>

Indigent Soldiers and Sailors.

CREDIT.		
Appropriations, amount assessed		\$500 00
Cash, received of sundry persons, money not		
called for	\$20 00	
State of Massachusetts, Indigent Sol-		
diers and Sailors	243 50	
	<hr/>	
		263 50
		<hr/>
		\$763 50
DEBIT.		
Cash, paid Sundry Persons as per pay-rolls	\$507 00	
Excess and Deficiency, balance to credit of		
account	256 50	
	<hr/>	
		\$763 50
		<hr/>

Interest.

CREDIT.		
Appropriations, amount assessed		\$70,000 00
Water Works Income, amount transferred		6,700 00
Cash, received of sundry persons on taxes		
and assessments	\$13,908 31	
Interest on deposit in banks	1,221 06	
Interest on tax titles released	85 15	
Boston Five Cents Savings Bank, pre-		
mium on bonds	75 00	
Real Estate Liens, interest on estates		
deeded to the city for non-payment of		
taxes	118 53	
	<hr/>	
		15,408 05
		<hr/>
		\$92,108 05
DEBIT.		
Cash, paid on Funded Debt:—		
\$139,000, one year at 4 per cent.	\$5,560 00	
	<hr/>	
Amounts carried forward	\$5,560 00	\$92,108 05

Amounts brought forward . . .	\$5,560 00	\$92,108 05
\$50,000, six months at 4 per cent. . .	1,000 00	
\$150,000, one year at 4½ per cent. . .	6,750 00	
\$25,000, six months at 4½ per cent. . .	562 50	
\$991,000, one year at 4 per cent. . .	39,640 00	
\$43,000, six months at 4 per cent. . .	860 00	
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	\$54,872 50	
Less coupons unpaid	22,780 00	
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	\$31,592 50	
Sundry Persons, unpaid coupons	22,780 00	
	<hr/>	
	\$54,872 50	
On Temporary Loans:—		
F. S. Moseley & Co., on note of \$100,000, six months, discounted at 2.7 per cent.	1,348 25	
The Boston Five Cents Savings Bank, on note of \$100,000, six months, at 3 per cent., interest payable at maturity . .	1,500 00	
The Boston Five Cents Savings Bank, on note of \$100,000, six months, at 3 per cent., interest payable at maturity . .	1,500 00	
The Boston Five Cents Savings Bank, on note of \$100,000, one day	8 33	
The Boston Five Cents Savings Bank, on note of \$100,000, four months, at 3 per cent., interest payable at maturity . .	1,000 00	
Commonwealth of Massachusetts, on note of \$100,000, three months, 3.59 per cent.	897 50	
The Boston Five Cents Savings Bank, on note of \$100,000, one month and one day	387 50	
The Boston Five Cents Savings Bank, on note of \$100,000, seven months, 3 per cent., interest payable at maturity . .	1,750 00	
Rogers, Newman, & Tolman, on note of \$100,000, four months and one day, discounted at 4.1 per cent.	1,378 06	
The Boston Five Cents Savings Bank, on note of \$100,000, five days, 5 per cent. .	41 67	
	<hr/>	
	\$9,811 31	
On Funded Debt	54,372 50	
On Temporary Loans	9,811 31	
Sam Walter Foss, librarian, interest on \$1,000, two years, fifty-seven days, 5 per cent	107 92	
Fire Department, amount transferred . .	700 00	
Engineering Department, amount trans- ferred	200 00	
Excess and Deficiency, balance to credit of account	26,916 82	
	<hr/>	
		\$92,108 05

Miscellaneous.

CREDIT.

Appropriations, amount assessed		\$12,000 00
Real Estate Liens, for costs on estates deeded to the city for non-payment of taxes		28 00
Cash, received of sundry persons, costs on taxes and assessments	\$4,548 80	
On tax titles released	9 00	
John H. Dusseault, fees for sealing weights and measures	348 32	
C. S. Philbrick, milk inspector's fees	136 00	
Fulton O'Brion, public weigher	27 70	
F. C. Fuller, plumbers' licenses	39 50	
State of Massachusetts, sealing weights	68	
Peter Lupos, license to peddle	25 00	
John J. Strates, license to peddle	25 00	
Constantine Vailas, license to peddle	25 00	
Vincenzo Di Fazio, license to peddle	25 00	
Joseph Bora, license to peddle	25 00	
George F. Hughes, release of restriction on land	5 00	
H. B. Crandall, costs in suit	8 56	
William H. Morgan, administrator, costs in suit	1 00	
Sundry Persons, druggists' licenses	25 00	
George I. Vincent, City Clerk:—		
Recording mortgages	\$383 00	
Marriage certificates	300 00	
Licensing dogs	285 20	
Amusements	95 00	
Junk licenses	88 00	
Auctioneers' licenses	50 00	
Intelligence offices	20 00	
Billiards and pool	76 00	
Fireworks	72 00	
Slaughtering	3 00	
Second-hand store	10 00	
Night lunch	2 00	
Street musicians	29 50	
Private detectives	30 00	
Liquor licenses	25 00	
Copies of records	28 50	
	<hr/>	1,497 20
		<hr/>
		6,771 76
		<hr/>
		\$18,799 76

DEBIT.

Cash, paid John H. Dusseault, salary as sealer of weights and measures	\$734 01	
Mabel L. Dadmun, clerical services	206 01	
Gertrude F. Gray, clerical services	254 69	
Rebecca J. Greene, clerical services	100 67	
Florence M. Grow, clerical services	34 67	
Amy L. Hamlet, clerical services	56 01	
Marion E. Kendall, clerical services	52 68	
Mabel Olmsted, clerical services	220 01	
	<hr/>	
Amounts carried forward	\$1,658 75	\$18,799 76

Amounts brought forward	\$1,658 75	\$18,799 76
Sarah J. Lamont, clerical services	65 34	
Nannie M. Sargent, clerical services	158 67	
Mary A. Sleeper, clerical services	34 67	
Alice M. Vincent, clerical services	398 69	
Elsie Tufts, clerical services	72 01	
Charles G. Brett, clerical services	39 00	
Frederic W. Cook, clerical services	42 00	
Arthur Atwood, clerical services	50 00	
Charles E. Davis, clerical services	6 88	
G. Ernest Griffin, clerical services	3 00	
John F. Kennard, clerical services	17 50	
Frank E. Merrill, clerical services	45 00	
William P. Mitchell, clerical services	3 00	
Freeman L. Lowell, clerical services	50 00	
Elmer S. Olmsted, clerical services	50 00	
Ada C. Walker, clerical services	142 01	
Stephen J. Jackman, janitor City Hall Annex	420 00	
Albert Taylor, services as janitor	35 00	
E. A. Parker, special duty	22 00	
Miller & Shaw, repairs coupon cutter	2 62	
George F. Hurn & Co., repairs furniture	1 25	
Derby Desk Co., repairs furniture	17 95	
W. F. Fleming, repairs furniture	1 00	
Robert S. Robson, repairing ballot boxes	36 75	
James Martin & Son, awning	2 50	
Irving W. Wheeler & Co., awnings	14 75	
John H. Pray, Sons, & Co., carpet	76 75	
Jackson Caldwell & Co., furniture	3 40	
Union Decorating Co., decorations	10 00	
Lee L. Powers, decorations	35 00	
M. G. Staples, storage	61 58	
T. F. McGann, railing	12 00	
Sprague & Hathaway Co., frame	6 00	
Benjamin F. Freeman, portrait and frame	70 00	
George H. Walker & Co., maps	250 00	
F. W. Allen, bookcase	14 00	
Greenwood & Co., dusters	18 12	
A. H. Irving, fasteners	2 25	
McKenney & Waterbury, lamps	10 14	
E. A. Drown, lights	8 50	
Standard Scale & Supply Co., scales	70 57	
Citizen Co., printing	7 35	
Somerville Journal Co., printing	17 75	
G. F. Matthews, carpentering	173 49	
Harris P. Tibbetts, carpentering	880 96	
G. A. Walker, painting	23 63	
George W. Manning, painting	18 95	
W. J. Ferinoyle, setting glass	5 50	
D. P. Bucknam, mason work	3 75	
I. H. Brown Moulding Co., mouldings	6 61	
H. A. Winship, bag	6 00	
E. J. Cambridge, stamps	8 42	
S. E. Spencer, badges	1 50	
The Boston Regalia Co., sashes	7 50	
Charles M. Berry, telephone	1 85	
E. P. Schuebeler, cloth	8 25	
M. A. Mann, laundering	24 00	
Amounts carried forward	\$5,234 16	\$18,799 76

Amounts brought forward	\$5,234 16	\$18,799 76
James Bartley, salt	5 60	
I. H. Wiley & Co., polish	1 50	
A. E. Googins, floor oil	1 00	
Howe & Flint, hardware	40 55	
Underhill Hardware Co., hardware	41 76	
Whitney & Snow, hardware	20 74	
W. E. Plumer & Co., hardware	1 51	
Charles L. Underhill, hardware	35 15	
Copithorne Bros., supplies	1 08	
Frank W. Kaan, office rent	150 00	
Frank W. Kaan, disbursements	246 63	
Dennis Kelley, court expenses	73 85	
George I. Vincent, disbursements	2 00	
E. W. Bailey, expenses of special committee	5 00	
Jairus Mann, disbursements	2 05	
Jennie L. Jones, car fares	22 60	
Charles L. Ellis, car fares	11 70	
Charles S. Robertson, clerical services	45 00	
Charles S. Robertson, stamps	55	
Stillman H. Libby, services as auctioneer	23 40	
J. W. Howard, flowers	5 00	
William Buckley, horseshoeing	30 75	
P. Kirk, harness work	36 00	
J. T. Macneill, harness work	12 10	
Hale & Mayhew Co., repairing wagon	37 45	
Damon Safe & Iron Works Co., repairing safe	3 70	
Yale & Towne Mfg. Co., cleaning and insuring time lock	15 00	
A. A. Sanborn, steamfitting	14 30	
Wellington-Wild Coal Co., fuel	508 82	
New England Telephone & Telegraph Co., rentals and tolls	442 96	
Cambridge Ice Co., ice	138 50	
Cambridge Gaslight Co., gas	84	
Somerville Electric Light Co., lighting	923 45	
City of Somerville, water	44 24	
Edwin O. Childs, recording deeds	97 80	
Middlesex County Truant School, board of truants	479 57	
Middlesex County Jail, board of prisoner Commonwealth of Massachusetts, 25 per cent. of liquor licenses	30 00	
F. J. Stanley, board of messenger's horses	6 25	
Morgan & Bond, carriage robe	543 25	
C. M. Blake, newspapers	12 00	
Eugene Mead, carriage hire	6 00	
L. H. Brown, carriage hire	141 00	
Howard Lowell & Son, carriage hire	172 00	
J. H. Thompson, carriage hire	11 00	
W. J. Kelley, labor	15 00	
F. A. Mansfield, labor	2 50	
David G. Marston, labor	25 38	
C. A. Southwick, labor	12 85	
Solon C. Gilmore, labor	3 00	
Wesley B. Higgins, labor	28 00	
N. L. Pennock, labor	30 00	
	10 00	
Amounts carried forward	\$9,804 54	\$18,799 76

Amounts brought forward	\$9,804 54	\$18,799 76
F. S. Dickinson, labor	10 00	
William T. Higgins, labor	5 00	
E. T. Peterson, labor	7 50	
J. L. Whittaker, labor	7 50	
Charles Gale, labor	2 50	
E. P. Cook, labor	9 50	
Alfred Shiner, labor	2 00	
Alfred F. Shiner, labor	8 37	
Bernard F. Sheridan, labor	7 50	
A. B. Colesworthy, labor	10 00	
J. W. Rich, labor	2 50	
John F. O'Brien, labor	14 30	
R. C. Burckes, labor	10 00	
Mrs. Carroll, labor	1 10	
George H. Maynard, plumbing	4 90	
Pettingill Andrews Co., electrical supplies	14 19	
John Donnelly & Sons, posting	40 40	
Hartford Steam Boiler Inspection & Insurance Co., insurance	50 00	
Willard C. Kinsley Post, 139, G. A. R., contribution for observance of Memorial Day	400 00	
Co. M, 8th Regt., M. V. M., contribution for rifle practice	250 00	
Frank L. Collins, band	100 00	
W. M. Perkins, band	100 00	
E. F. Hicks, cost of entertaining Co M	234 00	
Charles C. Farrington, refreshments	64 92	
Hotel Colson, refreshments	33 45	
E. W. Hall, cost of entertaining Co. M on their return from Cuba	16 25	
H. Wood, repairing lock	6 20	
C. P. Brann & Co., turkeys	98 51	
F. L. Card, turkeys	82 62	
George E. Elliott, turkeys	56 00	
F. W. & W. Higgins, turkeys	116 90	
L. Herbert Huntley, turkeys	97 50	
L. W. Manning, turkeys	149 35	
George W. Littlefield, ringing bell	12 00	
E. A. Maynard, ringing bell	12 00	
A. Strahan, ringing bell	9 00	
J. H. Colbath, ringing bell	12 00	
Charles A. Earle, ringing bell	12 00	
George Stephens, Jr., ringing chimes	16 00	
Albert August, return of births	1 50	
George G. Averill, return of births	1 75	
Edward E. Allen, return of births	1 00	
Albert C. Aldrich, return of births	6 00	
William H. Bailey, return of births	4 50	
William A. Bell, return of births	4 75	
G. W. Bryant, return of births	4 25	
L. N. Bump, return of births	3 25	
F. F. Carr, return of births	1 25	
A. H. Carvill, return of births	1 25	
John F. Couch, return of births	45 25	
J. H. Cunningham, return of births	1 75	
Mary B. Currier, return of births	2 75	
Amounts carried forward	\$11,969 75	\$18,799 76

Amounts brought forward	\$11,969 75	\$18,799 76
H. F. Curtis, return of births	5 50	
Charles K. Cutter, return of births	75	
Roland A. Davis, return of births	75	
A. B. Dearborn, return of births	5 75	
Augustus W. Dudley, return of births	1 50	
T. M. Durell, return of births	6 75	
John E. Dwyer, return of births	25	
Charles C. Ellis, return of births	1 25	
P. J. Finnigan, return of births	2 75	
Douglas S. Flewelling, return of births	2 00	
A. Ward Follett, return of births	7 75	
E. Scott Dow, return of births	50	
A. W. Forbush, return of births	75	
A. A. Gibson, return of births	22 75	
John A. Gregg, return of births	14 25	
Henry C. Hache, return of births	16 50	
W. B. Hammond, return of births	1 25	
H. A. Hands, return of births	2 50	
William J. Hatchett, return of births	4 25	
William F. Holmes, return of births	4 75	
E. S. Kimpton, return of births	3 00	
R. L. Lane, return of births	3 00	
Thomas J. Leahy, return of births	1 75	
Forrest Leavitt, return of births	1 25	
Joseph S. Lockhart, return of births	1 50	
Charles F. Maguire, return of births	3 75	
George C. Mahoney, return of births	3 25	
H. P. Makechnie, return of births	1 75	
J. A. McDonald, return of births	1 25	
H. B. McIntire, return of births	75	
A. E. Merrill, return of births	4 25	
Edward J. Meyer, return of births	1 25	
George A. Miles, return of births	12 00	
George W. Mills, return of births	25	
A. Moll, return of births	7 50	
Charles A. Mongan, return of births	18 00	
Frank L. Morse, return of births	1 75	
Louis P. O'Donnell, return of births	14 00	
George E. Osgood, return of births	4 25	
Charles F. Parker, return of births	75	
Eugenie M. Phillips, return of births	5 25	
E. D. Pillsbury, return of births	1 00	
E. A. Sanborn, return of births	1 50	
Frederick G. Smith, return of births	13 00	
Betty Suber, return of births	1 00	
Anna B. Taylor, return of births	3 75	
F. W. Taylor, return of births	2 25	
H. S. Trueman, return of births	2 25	
W. H. Tuber, return of births	1 25	
Roswell Wetherbee, return of births	1 00	
George W. W. Whiting, return of births	10 50	
Reuben Willis, return of births	1 25	
J. M. Crocker, return of births	1 00	
Charles S. Cahill, return of births	10 50	
Philip M. Fitzsimmons, return of births	75	
L. F. Lathe, return of births	1 00	
Frank L. Newton, return of births	1 25	
Elizabeth S. Webster, census of births	83 10	
Amounts carried forward	\$12,299 10	\$18,799 76

Amounts brought forward . . .	\$12,299 10	\$18,799 76
Marie W. Hunt, census of births . . .	44 10	
John F. Kennard, census of births . . .	40 20	
Clara Z. Elliot, census of births . . .	31 00	
Charles G. Brett, census of births . . .	23 70	
Francis M. Wilson, reporting deaths . . .	25 75	
E. H. Marsh, reporting deaths . . .	20 00	
A. E. Mann, reporting deaths . . .	18 75	
John S. McGowan, reporting deaths . . .	12 75	
C. F. Bryant, reporting deaths . . .	11 75	
W. A. Frink, reporting deaths . . .	9 75	
John E. Bryant, reporting deaths . . .	6 25	
David Fudge & Son, reporting deaths . . .	6 25	
Precinct Officers . . .	2,411 00	
R. M. Dill, rent of hall . . .	27 00	
Simon Connor, rent of hall . . .	75 00	
Odd Fellows' Building Association, rent of hall . . .	30 00	
Warren E. Locke, rent of hall . . .	14 00	
Milliken & Moore, rent of hall . . .	10 00	
Philip Eberle, rent of hall . . .	62 50	
Somerville Guild, rent of hall . . .	8 00	
American Express Co., expressing . . .	14 83	
E. R. Perham, expressing . . .	14 55	
Thorpe's Express, expressing . . .	3 70	
Glines & Co., expressing . . .	50	
J. H. Grundy, expressing . . .	2 20	
R. A. R. Benson, teaming . . .	4 00	
Emma F. Bradley, compensation for dam- ages . . .	75 00	
Engineering Department, numbering houses . . .	26 00	
	<hr/>	
	\$15,327 63	
Excess and Deficiency, balance to credit of account . . .	3,472 13	
	<hr/>	
		\$18,799 76

Overlay and Abatement.

CREDIT.

Taxes, amount added by the Assessors for convenience in apportionment, to be applied to abatement on taxes . . .	\$8,935 69
Cash, taxes collected . . .	4 00
	<hr/>
	\$8,939 69

DEBIT.

Taxes, amount of abatements . . .	\$4,396 17
Cash, paid Franklin O. Reed, taxes of 1896 and 1897 refunded . . .	55 42
J. Frank Neal, taxes of 1895, 1896, and 1897 refunded . . .	13 21
	<hr/>
	\$4,464 80
Excess and Deficiency, balance to credit of account . . .	4,474 89
	<hr/>
	\$8,939 69

Overplus on Tax Sales.

CREDIT.

Balance from 1898	\$157 13	
Cash, received of Willard Welsh, premiums on estates sold for taxes of 1897 and 1898	620 00	
George H. Richards, premium on estates sold for taxes of 1897 and 1898	200 00	
Harlow H. Rogers, premium on estates sold for taxes of 1897 and 1898	2,050 00	
		<u>\$3,027 13</u>

DEBIT.

Cash, paid Charles A. Kendall, premium on taxes sold for 1897 and 1898	\$520 00	
Fletcher Ranney, premium on taxes of 1897	400 00	
Catherine Watson, premium on taxes of 1898	400 00	
Mary Burke, Guardian, premium on taxes of 1895 and 1896	39 00	
		<u>\$1,359 00</u>
Balance to credit in account, 1900	1,668 13	
		<u><u>\$3,027 13</u></u>

Police.

CREDIT.

Appropriations, amount assessed		\$51,000 00
Cash, received of Herbert A. Chapin, Clerk of the Courts, fines, etc.	\$3,115 00	
John R. Fairbairn, master of House of Correction, fines, etc.	898 00	
		<u>\$4,013 00</u>
Excess and Deficiency, balance to debit of account	1,249 60	
		<u>5,262 60</u>
		<u><u>\$56,262 60</u></u>

DEBIT.

Cash, paid Melville C. Parkhurst, chief	\$1,900 00	
Robert R. Perry, captain	1,500 00	
Edward McGarr, sergeant	1,200 00	
Christopher C. Cavanagh, sergeant	1,200 00	
Dennis Kelley, sergeant	1,200 00	
Eugene A. Carter, sergeant	1,200 00	
John E. Fuller, patrolman	1,095 00	
George L. Smith, patrolman	1,089 00	
Edward M. Carter, patrolman	1,095 00	
George W. Bean, patrolman	1,095 00	
George A. Bodge, patrolman	924 00	
		<u>\$13,498 00</u>
Amounts carried forward		<u><u>\$56,262 60</u></u>

Amounts brought forward	\$13,498 00	\$56,262 60
Phineas W. Skinner, patrolman	1,095 00	
John Hafford, patrolman	1,095 00	
Albion L. Staples, patrolman	1,095 00	
George H. Carleton, patrolman	1,095 00	
Judson W. Oliver, patrolman	1,095 00	
Francis A. Perkins, patrolman	1,095 00	
Charles S. Thrasher, patrolman	1,074 00	
William H. Johnston, patrolman	1,095 00	
Charles E. Woodman, patrolman	1,112 76	
Arthur E. Keating, patrolman	1,095 00	
John G. Knight, patrolman	1,095 00	
Jacob W. Skinner, patrolman	1,095 00	
Theodore E. Heron, patrolman	1,089 00	
David A. Bolton, patrolman	1,083 00	
Ulysses G. Skinner, patrolman	1,095 00	
James M. Harmon, patrolman	1,095 00	
Michael T. Kennedy, patrolman	1,095 00	
Charles W. Stevens, patrolman	1,095 00	
Ira S. Carleton, patrolman	1,095 00	
Ezra A. Dodge, patrolman	1,095 00	
James J. Pollard, patrolman	1,086 00	
Daniel G. Simons, patrolman	1,095 00	
Samuel Burns, patrolman	1,092 00	
Frederic H. Googins, patrolman	1,095 00	
Jotham Chisholm, patrolman	1,053 00	
William J. Davidson, patrolman	1,065 00	
Elmer E. Drew, patrolman	1,086 00	
John A. Dadmun, patrolman	1,095 00	
Eugene A. Woodsum, patrolman	1,078 00	
George L. Wright, patrolman	1,037 00	
Myron S. Gott, reserve patrolman	912 50	
John A. Ray, reserve patrolman	912 50	
Herbert Hilton, reserve patrolman	910 00	
Charles W. Reick, reserve patrolman	895 00	
Alfred L. Leighton, reserve patrolman	330 00	
Charles E. Byrnes, reserve patrolman	612 50	
Thomas Damery, reserve patrolman	612 50	
Frank C. Hopkins, reserve patrolman	605 00	
Clifford B. True, reserve patrolman	180 00	
Eugene H. Gammon, patrolman	585 00	
Warren H. Smith, driver	336 00	
Edward E. Ware, hostler	677 00	
Martin Sherry, hostler	528 00	
Almond L. Billings, hostler	48 00	
George H. Dearborn, special patrolman	12 00	
Frederick H. Mansfield, special patrolman	12 00	
Albert Gilman, special patrolman	12 00	
Nathan L. Pennock, special patrolman	12 00	
Daniel H. Rinn, special patrolman	12 00	
Frederick S. Dickinson, special patrolman	12 00	
James M. Lynch, special patrolman	4 00	
Edward F. Reed, special patrolman	12 00	
Bernard F. Sheridan, special patrolman	12 00	
Edward T. Peterson, special patrolman	12 00	
David G. Marston, special patrolman	4 00	
Royal C. Burckes, special patrolman	12 00	
Amounts carried forward	\$54,430 76	\$56,262 60

Amounts brought forward	\$54,430 76	\$56,262 60
Lambert M. Maynard, special patrolman	12 00	
William W. Waller, special patrolman	12 00	
Peter J. Savage, special patrolman	12 00	
Charles H. Weston, special patrolman	12 00	
Alfred M. Sibley, special patrolman	12 00	
Andrew B. Colesworthy, special patrolman	12 00	
Charles W. Howard, special patrolman	8 00	
Lewis R. Stewart, special patrolman	8 00	
Irving E. Wilson, special patrolman	47 50	
Eugene A. Carter, disbursements	119 43	
George H. Carleton, disbursements	26 18	
Dennis Kelley, disbursements	10 65	
David A. Bolton, disbursements	3 27	
Lemuel H. Snow, disbursements	11 50	
Albion L. Staples, disbursements	85	
Edward M. Carter, disbursements	2 95	
Melville C. Parkhurst, lockup keeper	100 00	
Mary A. Staples, matron	180 00	
Mrs. John Herron, meals	19 00	
S. Stromback, meals	26 00	
Mary Ryan, care of children	6 00	
George E. Frost, laundering	15 09	
Peerless Laundry, laundering	7 49	
Somerville Standard Laundry, laundering	12 00	
George W. Clark, laundering	2 16	
Boston & Suburban Laundry Co., laundering	6 80	
Idella Taylor, laundering	4 49	
Allen Brothers, badges	10 80	
Mitchell Mfg. Co., badges	3 50	
Raphael Masstrangialo, wreaths	10 28	
Oak Hall Clothing Co., wreaths	8 50	
Simon Connor, wreaths	10 00	
H. A. Winship, belts	9 75	
Scovill Mfg. Co., buttons	13 51	
E. P. Schuebeler, supplies	6 75	
R. M. Sturtevant, supplies	6 19	
Howe & Flint, hardware	6 76	
Whitney & Snow, hardware	16 95	
W. E. Plumer & Co., hardware	15	
Union Glass Co., globes	50	
Ira L. Roberts, horseshoeing	63 50	
Charles Waugh & Co., repairing wagon	76 25	
I. B. Walker, repairing wagon	2 50	
E. Spalding, harness work	23 85	
A. C. Lyman, repairing carpet	8 75	
A. F. McMillan, repairs	2 00	
Fulton O'Brion, hay	208 19	
John W. G. Pitcher, use of team	2 00	
Jackson Caldwell & Co., board of horse	5 00	
Moses Coleman & Son, horse	150 00	
Charles W. Dailey, repairing ambulance	3 00	
Iver Johnson & Co., cartridges, etc.	7 58	
W. T. Gibson, bits for horses	6 00	
W. H. Hitchings, veterinary services	2 00	
Amounts carried forward	\$55,784 38	\$56,262 60

Amounts brought forward	\$55,784 38	\$56,262 60
J. D. OConnell, medical attendance	2 00	
John A. Gregg, medical attendance	2 00	
A. B. Dearborn, medical attendance	7 00	
T. H. Fenelon, medicine	50	
Thomas Hollis & Co., insect powder	3 50	
A. Fiske, crackers	7 89	
E. B. West, crackers	5 70	
Thomas Groom & Co., stationery	21 10	
M. L. Vinal, stationery	3 80	
Somerville Journal Co., stationery	5 50	
W. A. Greenough & Co., directories	6 00	
Municipal Signal Co., ink	1 25	
Little, Brown, & Co., books	3 00	
G. W. Dillingham & Co., books	10 00	
John Daly, book	13 00	
F. S. Blanchard, book	3 00	
Fresh Pond Ice Co., ice	35 00	
New England Telephone & Telegraph Co., rentals and tolls	219 83	
Charles S. Robertson, premium of insur- ance	39 00	
Wellington-Wild Coal Co., fuel	33 20	
Henry Barrett, photographs	34 00	
C. M. Blake, papers	14 60	
American Express Co., expressing	1 65	
E. R. Perham, expressing	2 55	
Thorpe's Express, expressing	90	
Gilman's Express, expressing	1 75	
George T. Day, expressing	35	
Glines & Co., expressing	15	
		<u>\$56,262 60</u>

Police Station Incidentals.

CREDIT.

Appropriations, amount assessed		\$2,000 00
Cash, received of County of Middlesex, rent of courtroom	\$600 00	
Commonwealth of Massachusetts, rent of armory	150 00	
		<u>750 00</u>
		\$2,750 00
Excess and Deficiency, balance to debit of account		41 67
		<u>\$2,791 67</u>

DEBIT.

Cash, paid Henry S. Braden, janitor	\$795 16	
W. C. Braden, janitor	28 00	
John F. Richardson, janitor	57 12	
Wellington-Wild Coal Co., fuel	426 85	
Cambridge Gaslight Co., gas	484 95	
City of Somerville, water	48 30	
W. S. Burbank, sawdust	3 00	
		<u>\$1,843 38</u>
Amounts carried forward	\$1,843 38	\$2,791 67

Amounts brought forward . . .	\$1,843 38	\$2,791 67
Jackson Caldwell & Co., bedding . . .	8 25	
O. D. Baker & Co., bedding . . .	32 25	
Doe & McMillan, repairs . . .	5 55	
C. W. Lerner & Co., disinfectant . . .	50 00	
R. M. Sturtevant, matches, etc. . .	13 92	
A. C. Lyman, cleaning carpet . . .	12 00	
Roberts Iron Works Co., plates . . .	4 83	
Continental Grate Co., grate . . .	54 00	
I. B. Walker, iron work . . .	75	
Howe & Flint, hardware . . .	27 83	
Whitney & Snow, hardware . . .	10 26	
W. E. Plumer & Co., hardware . . .	14 54	
James F. Davlin, plumbing . . .	5 00	
D. P. Bucknam, mason work . . .	66 55	
G. D. B. Robinson, carpentering . . .	24 15	
G. F. Matthews, carpentering . . .	28 64	
A. A. Sanborn, steam fitting . . .	5 80	
W. H. Morris, setting glass, etc. . .	25 49	
J. Q. Twombly, painting . . .	141 66	
John Daly, photo cabinets . . .	112 50	
A. B. Wedgewood, premium of insurance . . .	150 00	
Foster & Sias, premium of insurance . . .	150 00	
R. A. R. Benson, expressing . . .	4 00	
Gilman Express Co., expressing . . .	32	
		<u>\$2,791 67</u>

Powder House Boulevard.

CREDIT.

Appropriations, amount appropriated by borrowing on		
Funded Debt account . . .		\$10,000 00
Cash, received of L. E. DeWolf, loan . . .	\$25 00	
Thomas H. Gill, loan . . .	7 50	
Public Grounds account, loan . . .	252 60	
Water Maintenance account, loan . . .	13 50	
Sidewalks account, sod . . .	22 70	
		<u>321 30</u>
		<u>\$10,321 30</u>

DEBIT.

Cash, paid laborers . . .	\$76 00
Thomas H. Gill, on account of contract . . .	7,704 58
Justina S. Teele, taking of land . . .	1,389 82
S. & R. J. Lombard, edgestones . . .	124 50
Osgood & Hart, catch-basin covers, etc. . .	238 80
Chelmsford Foundry Co., beams . . .	167 35
Whitney & Snow, paint . . .	1 06
Citizen Press, advertising . . .	43 00
James Tevlin, hired teams . . .	5 50
George O. W. Servis, photographs . . .	2 00
Charles E. Moss, blue print paper . . .	1 71
Sewers Maintenance account, beams . . .	20 00
	<u>\$9,774 32</u>
Balance to credit in account, 1900 . . .	546 98
	<u>\$10,321 30</u>

Printing and Stationery.

CREDIT.

Appropriations, amount assessed	\$7,000 00
Excess and Deficiency, balance to debit of account	1,229 58
	<hr/>
	\$8,229 58

DEBIT.

Cash, paid Somerville Journal Co., printing and advertising	\$2,740 52
Somerville Citizen Co., printing	420 55
Thomas Groom & Co., books and stationery	2,049 32
American Printing and Engraving Co., annual reports	1,454 24
George Stephens & Co., tax bills	113 75
Forbes Lithograph Mfg. Co., bonds	100 00
Derby Desk Co., repairs coupon cutter	3 50
Alfred Mudge & Son, municipal registers	138 25
F. S. Blanchard & Co., book	3 00
Little, Brown, & Co., book	10 25
C. C. Hoffman & Co., stamp	1 30
E. B. McLean, stamp	4 00
C. F. Buck, stamp	1 15
John Donnelly & Son, posting	3 00
George H. Walker & Co., maps	56 00
Heliotype Printing Co., maps	391 00
John McGowan, paper fastener	2 25
Robert S. Robson, seals, rubber pads, etc.	29 10
Carter's Ink Co., typewriter ribbons	9 00
Smith Premier Typewriter Co., pads and paper	7 20
Greenough, Adams, & Cushing, ink	2 40
Adams, Cushing, & Foster, ink	3 60
Somerville Post-office, stamps and envelopes	641 50
Blackbird Pen Co., pens	7 50
M. Voorsanger, pens	2 00
W. A. Greenough & Co., directories	12 00
American Express Co., expressing	30
R. A. R. Benson, expressing	1 00
Frost & Adams Co., rules	3 65
Byron Boyd, abstracts	16 00
Whitney & Snow, punch	2 25
	<hr/>
	\$8,229 58

Property and Debt Balance.

CREDIT.

Balance from 1898	\$1,200,368 55
Public Property, property acquired in 1899	142,874 59
Reduction of Funded Debt, bonds paid	154,500 00
Renewals of Funded Debt	15,000 00
	<hr/>
Amount carried forward	\$1,512,743 14

Amount brought forward \$1,512,743 14

DEBIT.

Appropriations, amount borrowed on		
Funded Debt account	\$110,000 00	
Balance to credit of account, 1900	1,402,743 14	
		<u>\$1,512,743 14</u>

Public Grounds.

CREDIT.

Appropriations, amount assessed		\$9,000 00
Cash, received of William H. Berry for		
Franklin school building	\$200 00	
Henry M. Thompson, Tr., rent	72 00	
West End Street Railway Co., care of		
parkway	50 00	
James Stewart & Co., iron fence	1,432 00	
Public Grounds, Lincoln Park account,		
labor	110 00	
Wellington-Wild Coal Co., bill previ-		
ously paid	2 38	
		<u>1,866 38</u>
		<u>\$10,866 38</u>

DEBIT.

Cash, paid laborers	\$5,600 57
J. W. Howard, plants and care	820 00
M. J. Coneeny, plants	96 00
J. H. Bath, shrubs	31 50
Jordan, Marsh, & Co., flag	30 00
Charles F. Brine, uniform	136 65
Pinkham Shoe Store, rubber boots	4 50
A. Goldstein, rubber boots	4 50
A. F. McMillan, iron pipe	2 94
L. A. Wright, repairs of tools	7 50
Joseph Breck & Sons, repairs of tools	32 78
Joseph Young, repairs of tools	18 50
Herbert Wood, repairs of tools	4 15
Ames Plow Co., repairs of tools	56
Charles L. Underhill, repairs lawn	
mower	30
E. A. Johnson, lawn sprinklers	2 00
Underhill Hardware Co., hose	27 65
E. S. Sparrow & Co., oil	26 30
M. D. Jones, settees	147 60
S. H. Davis, lawn mowers	75 00
Whitney & Snow, wire netting, etc.	157 19
W. E. Plumer & Co., rope	1 02
Bliss Brothers, rope	3 88
J. A. Durell, hardware	33 82
I. K. Kimball, slats	2 50
Kimball Mfg. Co., repairing settees	2 00
L. B. Harmon, lumber	36 92
F. C. Ayer, lumber	64 80
I. H. Brown Moulding Co., lumber	30 40
G. F. Matthews, carpentering	192 73

Amounts carried forward	<u>\$7,594 26</u>	<u>\$10,866 38</u>
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Amounts brought forward	\$7,594 26	\$10,866 38
George H. Lowe, concrete	248 89	
William J. McCarthy, loam	8 84	
John F. Elkins, loam	135 32	
John T. Nichols, loam	1 60	
John W. Manning, removing trees	47 00	
Wellington-Wild Coal Co., fuel	13 66	
I. L. Smith, fuel	11 50	
The Citizen Co., advertising	3 00	
James Tevlin, hired team	139 35	
George W. Prichard, hired team	115 50	
Thomas H. Gill, hired team	216 15	
Charles A. Kelley, hired team	85 50	
George F. McKenna, hired team	216 25	
George D. Goodrich, drain pipe	7 65	
Thomas H. Naughton, plumbing	4 52	
Somerville Journal Co., cards	3 20	
J. H. Brooks, cloth	80	
A. M. Prescott, use of horse	6 00	
George A. Ricker, refreshments	20 00	
Howard Lowell & Son, carriage hire	10 00	
J. H. Thompson, carriage hire	18 00	
City of Somerville, water	35 00	
City of Somerville, service pipe	55 05	
Gilman Express Co., expressing	61	
Powder-house Boulevard account, loam	252 60	
Public Grounds, Lincoln Park account, police service, etc.	288 56	
Highways account, crushed stone	118 86	
Water Maintenance account, labor	27 99	
Support of Poor, "City Home" account, amount transferred	1,000 00	
Sewers Maintenance account, labor and teaming	21 18	
William C. Walker, rubber boots	6 00	
	<hr/>	
	\$10,712 84	
Excess and Deficiency, balance to credit of account	153 54	
	<hr/>	
		\$10,866 38

Public Grounds, Lincoln Park.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$10,000 00
Public Grounds account, police services	288 56
Fire Department, Fire Station, Clarendon Hill, labor	24 75
	<hr/>
	\$10,313 31
Excess and Deficiency, balance to debit of account	6 83
	<hr/>
	\$10,320 14

DEBIT.

Cash, paid laborers	\$3,989 61
Timothy F. Crimmings, teaming	424 35
	<hr/>
Amounts carried forward	\$4,413 96
	<hr/>
	\$10,320 14

Amounts brought forward	\$4,413 96	\$10,320 14
John F. Elkins, teaming	377 55	
Martin Gill, teaming	409 25	
George F. McKenna, teaming	367 68	
James Tevlin, teaming	59 32	
Thomas Allen, teaming	18 45	
J. Manning & Sons, teaming	12 50	
C. E. Trumbull & Co., use of engine	55 71	
W. A. Sanborn, brick	23 10	
Berry & Ferguson, cement	10 50	
F. C. Ayer, lumber	21 45	
George D. Goodrich, drain pipe	18 70	
Osgood & Hart, catch-basin covers, etc.	57 39	
Michael Healey, loam	61 50	
S. & R. J. Lombard, edgestones	177 95	
Joseph Breck & Sons, seed	4 30	
J. H. Bath, shrubs	257 00	
C. A. Slager, oats	2 40	
Wellington-Wild Coal Co., fuel	69 11	
Whitney & Snow, tools, etc.	215 14	
Underhill Hardware Co., hose	10 00	
Howe & Flint, hardware	1 05	
G. A. Walker, painting	51 32	
G. F. Matthews, carpentering	155 20	
William F. Holmes, medical attendance	10 00	
Public Grounds account, labor and materials	110 00	
Water Maintenance account, service con- nection	97 64	
Highways account, labor and materials	3,251 97	
		<u>\$10,320 14</u>

Public Library.

CREDIT.

Balance from 1898		\$7 40
Appropriations, amount assessed		9,000 00
Cash, received of County Treasurer, return on amount received of the city for dog licenses in 1898	\$2,052 86	
Sam Walter Foss, librarian, fines	533 38	
Catalogues	25 70	
Book	1 09	
Isaac Pitman Fund (Income account), interest	107 92	
		<u>2,720 95</u>
		<u>\$11,728 35</u>

DEBIT.

Cash, paid Little, Brown, & Co., books	\$1,953 72	
Charles Scribner's Sons, books	70 20	
N. J. Bartlett & Co., books	93 78	
J. Q. Adams & Co., books	22 00	
Lee & Shepard, books	28 64	
D. Appleton & Co., books	15 64	
Amounts carried forward	<u>\$2,183 98</u>	<u>\$11,728 35</u>

Amounts brought forward	\$2,183 98	\$11,728 35
Balch Brothers, books	26 00	
Boston Book Co., books	15 00	
Dodd, Mead, & Co., books	12 25	
Funk & Wagnalls, books	40 00	
Ginn & Co., books	16 20	
Charles E. Lauriat Co., books	89 20	
Prince Society, books	20 00	
George E. Littlefield, books	49 21	
Morse Co., books	6 57	
Arthur H. Grant, books	5 00	
John Wiley & Son, books	6 22	
A. N. Ward, books	5 00	
Bradlee Whidden, books	15 00	
E. P. Boon, books	27	
National Education Association, books .	60	
Preston & Rounds Co., books	2 50	
Puritan Publishing Co., books	1 50	
Home Library & Supply Association, books	2 50	
Flynn & Mahoney, book	2 50	
Bay State Publishing Co., books	8 25	
E. E. Kent, books	2 75	
Hinds & Noble, books	2 65	
Jordan, Marsh, & Co., books	9 60	
Desmond Publishing Co., books	30 50	
John McDonough, books	2 95	
Prang Educational Co., books	12 58	
F. S. Blanchard & Co., books	3 00	
A. N. Marquis & Co., books	2 75	
W. H. Poole, books	3 00	
G. Schirmer, books	1 00	
D. Van Nostrand Co., book	5 00	
Educational Publishing Co., book	17 96	
Egypt Exploration Fund, books	31 00	
William B. Harrison, books	7 18	
M. E. Pike, book	4 50	
Julia H. Rales, book	1 75	
Shakespeare Press, book	3 25	
American Publication Association, books	10 90	
Boston Journal, Educational Depart- ment, books	36 00	
Perry Mason & Co., books	3 50	
Joel Munsell's Sons, books	2 00	
Damrell & Upham, books	3 00	
Houghton, Mifflin, & Co., books	28 00	
Macmillan & Co., books	5 00	
Lyman M. Stearns, books	4 75	
H. T. VanDusen, books	5 00	
Oliver Ditson Co., music books	101 43	
William H. Guild & Co., magazines . .	433 08	
Landon Printing & Publishing Co., magazines	1 50	
Publisher's Weekly, magazines	12 50	
Alonzo A. Weed, magazines	1 25	
Writer Publishing Co., magazines	1 00	
A. W. Mumford, magazines	15	
Outing Publishing Co., magazines	19	
Amounts carried forward	<hr/> \$3,298 42	<hr/> \$11,728 35

Amounts brought forward	\$3,298 42	\$11,728 35
The Sun, periodical	5 40	
New York Times, periodical	1 00	
Cumulative Book Index, periodical	3 00	
Helmen, Taylor, & Co., periodical	9 00	
George E. Whitaker, periodical	1 25	
New England Tract Society, peri- odical	75	
Success Co., periodical	1 50	
Jackson Caldwell & Co., furniture	19 75	
W. H. Bullard, soda	21	
Boston Floor Oil Co., oil	2 00	
A. E. Googins, oil	1 00	
Whitney & Snow, hardware	1 33	
Walworth Construction & Supply Co., supplies	60	
George T. Bailey, papers	25 35	
C. M. Blake, papers	9 00	
Howe & Flint, supplies	3 10	
Gutta Percha & Rubber Mfg. Co., fur- nishings	16 41	
David Forbes, stamps	1 00	
W. T. Cleveland, lights	74 17	
Cambridge Gaslight Co., gas	31 52	
Somerville Electric Light Co., light- ing	415 20	
Library Art Club, pictures	5 00	
Perry Picture Co., pictures	1 00	
Gilman Express Co., expressing	80 35	
E. R. Perham, expressing	133 00	
E. R. Taylor, expressing	66 90	
G. F. Matthews, repairs	43 11	
M. F. Underwood, repairs	50	
Derby Desk Co., repairs	16 00	
George H. Maynard, repairs	9 50	
O. A. Ritzman, repairs	10 25	
Thomas McNee, repairs	7 25	
H. G. White, repairs	3 90	
C. H. Nelson, repairs	10 00	
C. A. Southwick, labor	71 93	
Pettingill, Andrews Co., paste	30	
Underhill Hardware Co., hardware	1 05	
Library Bureau, labels	77 60	
Hammond Typewriter Co., typewriter supplies	4 10	
Sampson, Murdock, & Co., directory	3 00	
W. A. Greenough, directory	3 00	
Thomas Groom & Co., stationery	52 10	
Somerville Journal Co., printing	231 93	
Somerville Citizen Co., printing	51 55	
New England Telephone & Telegraph Co., rentals and tolls	55 57	
Wellington-Wild Coal Co., fuel	188 30	
P. B. Sanford, binding books	611 96	
David Farquhar, binding books	179 68	
Somerville Post-office, stamps	20 00	
Glines & Co., expressing	1 00	
J. H. Grundy, expressing	60	
Thorpe's Express, expressing	70	
Amounts carried forward	\$5,862 09	\$11,728 35

Amounts brought forward _	\$5,862 09	\$11,728 35
Creighton & Clark, agency	100 25	
S. Louise Chandler, agency	48 69	
S. A. Riker, agency	25 09	
H. E. Bowman, agency	4 40	
Sam Walter Foss, librarian	1,800 00	
Disbursements	84 50	
Adele Smith, assistant librarian	566 68	
F. Mabel Norcross, cataloguer	483 36	
Anna L. Stone, assistant	450 00	
Mary J. Warren, assistant	450 00	
Esther M. Mayhew, assistant cataloguer .	399 96	
Mabel E. Bunker, assistant	374 87	
Mary S. Woodman, assistant	355 67	
Edith B. Hayes, assistant	152 72	
Florence D. Hurter, assistant	16 66	
F. Edward Kaula, attendant	274 70	
Aubrey A. Hills, attendant	75 55	
City of Somerville, water	10 64	
Charles S. Robertson, premium of insurance	67 50	
I. B. Kendall, premium of insurance . .	75 00	
Hartford Steam Boiler Inspection & Insurance Co., insurance	50 00	
	<hr/>	
	\$11,728 33	
Excess and Deficiency, balance to credit of account	02	
	<hr/>	
		\$11,728 35

Public Library, Addition.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$15,000 00
Schoolhouse. Forster Improvement, amount transferred	1,500 00
	<hr/>
	\$16,500 00

DEBIT.

Cash, paid Loring & Phipps, services as architects	\$391 97
John J. Coon & Co., on account of contract	9,000 00
Isaac Coffin & Co., on account of contract	1,050 00
	<hr/>
	\$10,441 97
Balance to credit of account, 1900	6,058 03
	<hr/>
	\$16,500 00

Public Library, Isaac Pitman Fund.

CREDIT.

Balance from 1898	\$1,000 00
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DEBIT.

Balance to credit of account, 1900	\$1,000 00
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Public Property.

CREDIT.

Balance to debit in account, 1900	\$2,895,243 14
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DEBIT.

Property and Debt Balance, property acquired in 1899	\$142,874 59	
Balance from 1898	2,752,368 55	
		<u>\$2,895,243 14</u>

Real Estate Liens.

CREDIT.

Cash, received of sundry persons, tax titles released	\$315 21	
Balance to 1900	2,740 09	
		<u>\$3,055 30</u>

DEBIT.

Balance from 1898	\$1,664 60	
Taxes, interest, and costs on estates deeded to the city for non-payment of taxes	1,390 70	
		<u>\$3,055 30</u>

Reduction of Funded Debt.

CREDIT.

Balance from 1898	\$9,099 63	
Appropriations, amount assessed	74,000 00	
Water Works Income	40,500 00	
Cash, received of Vermilye & Co., premium on bonds	6,809 00	
		<u>\$130,408 63</u>
Balance to debit in account, 1900	24,091 37	
		<u>\$154,500 00</u>

DEBIT.

Property and Debt Balance, amount of reduction of Funded Debt, 1899	\$154,500 00
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Renewals of Funded Debt.

CREDIT.

Appropriations, amount authorized by loans	\$15,000 00
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DEBIT.

Property and Debt balance, amount of Funded Debt renewed in 1899	\$15,000 00
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Relief and Burial of Indigent Soldiers and Sailors.

CREDIT.

Appropriations, amount assessed	\$12,000 00
State of Massachusetts, burials	350 00
Cash, sundry persons, money not called for	4 00
	<hr/>
	\$12,354 00
Excess and Deficiency, balance to debit of account	1,676 47
	<hr/>
	\$14,030 47

DEBIT.

Cash, paid monthly pay-rolls	\$13,295 00
Danvers Insane Hospital, board	169 47
Worcester Insane Hospital, board	42 71
Somerville Hospital, board	165 29
Julia Campbell, board	4 50
Somerville Journal Co., printing	3 50
C. F. Bryant, services as undertaker	105 00
John E. Bryant, services as undertaker	35 00
C. H. Lockhart, services as undertaker	35 00
Joseph J. Kelley & Son, services as undertakers	70 00
Francis M. Wilson, services as undertaker	70 00
Alfred E. Mann, services as undertaker	35 00
	<hr/>
	\$14,030 47

Salaries.

CREDIT.

Appropriations, amount assessed	\$8,000 00
Cash, received of Commonwealth of Massachusetts, national bank and corporation taxes	33,831 26
	<hr/>
	\$41,831 26

DEBIT.

Cash, paid George O. Proctor, mayor	\$2,500 00
George I. Vincent, city clerk	2,400 00
John F. Cole, city treasurer and collector of taxes	3,200 00
Frank W. Kaan, city solicitor	1,600 00
Charles S. Robertson, city auditor	500 00
Charles S. Robertson, clerk of common council	300 00
Jairus Mann, city messenger	1,500 00
William P. Mitchell, clerk of committees	1,800 00
Albert B. Fales, clerk of assessors	1,600 00
Beulah M. Peirce, assistant to treasurer	800 00
Alice T. Sleeper, assistant to treasurer	700 00
Louise B. McLaughlin, assistant to treasurer	600 00
Florence M. Grow, assistant to treasurer	465 33
Clara B. Snow, assistant to city clerk	700 00
	<hr/>
Amounts carried forward	\$18,665 33

\$41,831 26

Amounts brought forward	\$18,665 33	\$41,831 26
Edith A. Woodman, assistant to city clerk	600 00	
Mary A. Sleeper, assistant to city clerk	465 33	
Gertrude G. Kendall, assistant to assessors	700 00	
Jennie L. Jones, assistant to assessors	600 00	
Frederic W. Cook, assistant to clerk of committees	1,200 00	
Lucia A. Manning, assistant to clerk of committees	600 00	
Frederick C. Fuller, inspector of buildings	1,900 00	
Duncan C. Greene, inspector of plumbing	1,200 00	
Charles L. Ellis, deputy collector of taxes	1,200 00	
Charles M. Berry, inspector of animals and provisions	500 00	
Charles S. Philbrick, inspector of milk and vinegar	400 00	
Charles A. Southwick, janitor of City Hall and Public Library	850 00	
George H. Griffin, night janitor City Hall	720 00	
Benjamin F. Thompson, assessor	900 00	
Nathan H. Reed, assessor	800 00	
Harry A. True, assessor	800 00	
Fred B. Clapp, assistant assessor	250 00	
Charles C. Farrington, assistant assessor	250 00	
Edgar T. Mayhew, assistant assessor	250 00	
Frank A. Teele, assistant assessor	250 00	
Cromwell G. Rowell, registrar of voters	200 00	
Charles S. Lincoln, registrar of voters	200 00	
Charles E. Parks, registrar of voters	200 00	
George I. Vincent, registrar of voters	200 00	
Dennis Kelley, inspector of claims	67 75	
	<hr/>	
	\$33,968 41	
Excess and Deficiency, balance to credit of account	7,862 85	
	<hr/>	
		<u>\$41,831 26</u>

School Contingent.

CREDIT.

Appropriations, amount assessed		\$21,000 00
Cash, received of John Boreing, tuition of non-resident pupil	\$24 00	
Arthur W. Hunting, tuition of non-resident pupil	85 22	
Horace E. Cousens, tuition of non-resident pupil	54 09	
Franklin Moore, tuition of non-resident pupil	20 00	
David Moran, tuition of non-resident pupil	20 00	
	<hr/>	
Amounts carried forward	\$203 31	\$21,000 00

Amounts brought forward . . .	\$203 31	\$21,000 00
G. A. Southworth, injury to property .	53 00	
Sundry persons, damages to books .	5 00	
		261 31
		<u>\$21,261 31</u>

DEBIT.

Cash, paid Gordon A. Southworth, salary as superintendent of schools . . .	\$3,000 00	
Disbursements . . .	245 87	
E. L. Hannay, clerk in superintendent's office . . .	650 00	
Lemuel H. Snow, truant officer . . .	1,000 00	
Disbursements . . .	23 10	
Jairus Mann, truant officer . . .	50 00	
Ginn & Co., books . . .	1,343 12	
Silver, Burdett, & Co., books . . .	1,246 87	
American Book Co., books . . .	473 38	
Houghton, Mifflin, & Co., books . . .	167 28	
D. C. Heath & Co., books . . .	443 67	
Thomas R. Shewell & Co., books . . .	564 47	
University Publishing Co., books . . .	190 84	
De Wolfe, Fiske, & Co., books . . .	285 15	
Edward E. Babb & Co., books . . .	320 38	
Allyn & Bacon, books . . .	159 52	
Lee & Shepard, books . . .	61 13	
Boston School Supply Co., books . . .	97 22	
T. H. Castor & Co., books . . .	54 25	
Rand, McNally, & Co., books . . .	82 00	
Werner School Book Co., books . . .	28 00	
Lothrop Publishing Co., books . . .	49 45	
Leach, Shewell, & Co., books . . .	7 49	
Thompson, Brown, & Co., books . . .	7 30	
Henry Holt & Co., books . . .	17 95	
Longmans, Green, & Co., books . . .	60 81	
Harper Brothers, books . . .	5 98	
The Clark Mfg. Co., ink . . .	66 50	
Suffolk Ink Co., ink . . .	4 50	
Pulsifer, Cook, & Co., drawing supplies .	42 00	
Charles Place, drawing supplies . . .	7 80	
Keuffel & Essex, compass . . .	7 50	
Harvard University, examination papers . . .	6 70	
The Morse Co., maps . . .	3 90	
Boston Bank Note Co., diplomas . . .	138 61	
H. W. Stone, filling in diplomas . . .	63 40	
David Farquhar, binding books . . .	323 98	
F. J. Barnard & Co., binding books . . .	28 10	
H. M. Plimpton & Co., binding books . .	187 73	
F. S. Webster Co., typewriter supplies .	26 82	
Smith Premier Typewriter Co., typewriter . . .	55 00	
Wyckoff, Seamans, & Benedict, repairs typewriter . . .	60	
John M. Woods & Co., manual training supplies . . .	194 66	
L. E. Knott, laboratory supplies . . .	614 10	
Prang Educational Co., drawing supplies . . .	4 29	
Amounts carried forward . . .	<u>\$12,411 42</u>	<u>\$21,261 31</u>

Amounts brought forward	\$12,411 42	\$21,261 31
George F. King & Co., supplies . . .	2,209 05	
Greenough, Adams, & Cushing, supplies	480 14	
J. L. Hammett Co., supplies	1,316 56	
Wadsworth, Howland, & Co., supplies	230 70	
George F. Perry & Co., supplies	70 70	
Chandler & Barber, supplies	147 72	
Dennison Mfg. Co., supplies	23 57	
A. J. Wilkinson, supplies	70	
Cambridge Botanical Supply Co., supplies	34 85	
Thomas Hollis Co., supplies	32 86	
Williams & Rogers, supplies	180 08	
William E. Daniels, supplies	30 00	
P. P. Caproni, supplies	4 50	
Eagle Pencil Co., supplies	5 75	
Thorpe & Martin Co., supplies	3 75	
F. S. Blanchard & Co., supplies	3 00	
Roy Hopping, supplies	24 65	
F. H. Cail & Co., supplies	75	
Frost & Adams Co., supplies	8 50	
Franklin Educational Co., supplies	4 20	
Gilman-square Fish Market, supplies	6 43	
A. J. Thompson, supplies	4 00	
Whitall, Tatum, & Co., supplies	4 42	
Arthur V. Holland, supplies	2 50	
Blodgett Brothers & Co., supplies	13 30	
Adams, Cushing, & Foster, supplies	1,709 58	
N. H. Crowell, supplies	20 60	
Dame, Stoddard, & Kendall, supplies	49 80	
George B. Frazer, supplies	16 35	
E. F. Andrews & Co., supplies	2 58	
Mrs. E. T. Curtis, supplies	36 55	
W. A. Greenough, directory	3 00	
Somerville Citizen Co., printing	251 85	
Somerville Journal Co., printing	424 80	
American Printing & Engraving Co., printing	65 50	
G. R. Fisk & Co., ribbon	66 58	
E. S. Daniels, tuning pianos	25 00	
Henry F. Miller & Son, tuning piano	3 50	
Caroline G. Baker, piano	50 00	
Benjamin F. Freeman, photographs	60 50	
Charles E. Brainard, disbursements	14 55	
H. P. Knight, disbursements	25 23	
J. S. Emerson, disbursements	10 97	
S. A. Johnson, disbursements	10 29	
F. C. Baldwin, disbursements	9 45	
A. L. Doe, disbursements	1 08	
Mary F. Carrick, disbursements	24 17	
New England Telephone & Telegraph Co., rentals and tolls	105 10	
John C. Haynes & Co., pitch pipes	9 00	
Mitchell Mfg. Co., stamps	18 10	
First M. E. Church, use of edifice	150 00	
S. Henry Hadley, orchestra	108 75	
George C. Lorimer, address	50 00	
Charles D. Adams, address	25 00	
Amounts carried forward	\$20,601 98	\$21,261 31

Amounts brought forward	\$20,601 98	\$21,261 31
Everett D. Burr, address	25 00	
L. E. Brown, refreshments	80 20	
E. S. Webster, taking school census	64 00	
William H. Kelly, taking school census	66 25	
Francis P. Garland, taking school census	50 00	
Leona Goodspeed, services rendered	40 00	
London's Express, expressing	28 95	
J. H. Grundy, expressing	157 07	
R. A. R. Benson, expressing	53 00	
Thorpe's Express, expressing	2 75	
Gilman's Express Co., expressing	1 05	
Stilphen & Co., expressing	2 25	
Board Topographical Survey, supplies	6 00	
	<hr/>	
	\$21,178 50	
Excess and Deficiency, balance to credit of account	82 81	
	<hr/>	
		<u>\$21,261 31</u>

School Contingent, Janitors' Salaries.

CREDIT.

Appropriations, amount assessed	\$19,000 00
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DEBIT.

Cash, paid janitors' salaries as per pay-rolls	\$17,920 30
Excess and Deficiency, balance to credit of account	1,079 70
	<hr/>
	<u>\$19,000 00</u>

School Fuel.

CREDIT.

Appropriations, amount assessed	\$12,000 00
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DEBIT.

Cash, paid Wellington-Wild Coal Co., fuel	\$11,028 14
Excess and Deficiency, balance to credit of account	971 86
	<hr/>
	<u>\$12,000 00</u>

School House, Burns, Addition.

CREDIT.

Balance from 1898	\$12,000 00
Armory account, amount transferred	7,500 00
	<hr/>
	\$19,500 00
Balance to debit of account, 1900	180 87
	<hr/>
	\$19,680 87

DEBIT.

Cash, paid Loring & Phipps, services as architects	\$907 45
	<hr/>
Amounts carried forward	\$907 45
	<hr/>
	\$19,680 87

Amounts brought forward	\$907 45	\$19,680 87
Fessenden & Libby, on account of contract	15,331 00	
Extra work	171 40	
Alexander Duncan & Co., heating apparatus	2,647 00	
Chandler Adjustable Chair & Desk Works, furniture	462 50	
Heywood Brothers & Wakefield Co., furniture	20 63	
Derby Desk Co., furniture	7 50	
William E. Daniels, shades	48 10	
Moulton C. Libbey, clock work	20 00	
John H. Adcock, plumbing	41 89	
Mrs. Lantz, cleaning	12 00	
Mrs. McKinnon, cleaning	11 40	
	<hr/>	<hr/>
		\$19,680 87

Schoolhouse, Forster, Improvement.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$35,000 00
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DEBIT.

Cash, paid Samuel M. Pennock, land	\$250 00
Isaac J. Pennock, land	250 00
John D. Pennock, land	250 00
Martha H. Pennock, land	250 00
Nida M. Hardy, land	250 00
Carrie H. Dyer, land	250 00
Prescott & Sidebottom, services as architects	1,062 60
Frank G. Coburn & Co., on account of contract	13,925 00
Isaac Coffin & Co., heating apparatus	1,836 00
Chandler Adjustable Chair & Desk Works, furniture	296 61
Derby Desk Co., furniture	69 00
Daniel McIntire, cutting down trees	20 00
City of Somerville, water service	44 75
	<hr/>
	\$18,753 96
Public Library, Addition, amount transferred	1,500 00
Schoolhouse, Highland, Sanitary Improvement, amount transferred	350 00
	<hr/>
	\$20,603 96
Balance to credit of account, 1900	14,396 04
	<hr/>
	\$35,000 00

Schoolhouse, Highland, Sanitary Improvement.

CREDIT.

Appropriations, amount appropriated by borrowing on Funded Debt account	\$5,000 00
Schoolhouse, Forster, Improvement, amount transferred	350 00
	<hr/>
Amount carried forward	\$5,350 00

Amount brought forward	\$5,350 00
Armory account, amount transferred	1,122 76
Cash, received of Ezra T. Merrill, water for building purposes	12 25
	<hr/>
	\$6,485 01

DEBIT.

Cash, paid Ezra T. Merrill, on account of contract	\$6,000 00
Smith & Anthony Co., furnace	306 00
Loring & Phipps, services as architects	157 65
	<hr/>
	\$6,463 65
Balance to credit of account, 1900	21 36
	<hr/>
	<u>\$6,485 01</u>

Schoolhouse, Prescott, Heating and Ventilating.

CREDIT.

Balance from 1898	\$2,483 77
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DEBIT.

Cash, paid Alexander Duncan & Co., heating apparatus	<u>\$2,483 77</u>
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Schoolhouse, Ward Two (Albion A. Perry).

CREDIT.

Balance from 1898	\$28,221 47
Armory account, amount transferred	1,500 00
	<hr/>
	\$29,721 47

DEBIT.

Cash, paid Prescott & Sidebottom, services as architects	\$720 75
John A. Dodge, on account of contract	23,227 50
Isaac Coffin & Co., heating apparatus	2,765 00
Chandler Adjustable Chair & Desk Works, furniture	722 50
Derby Desk Co., furniture	303 00
Heywood Brothers & Wakefield Co., furniture	29 63
C. H. McKenney & Co., gas fixtures	32 77
P. Marr, shade fixtures	37 50
William E. Daniels, shades	109 80
Fred W. Farrar, clocks	34 25
Patrick Burke, grading	224 13
T. Allen, concreting	108 55
Cambridge Gaslight Co., service pipe	16 50
Philip B. Gallant, labor	7 00
J. F. Richardson, labor	4 00
Albert Taylor, labor	12 00
Edward J. Young, labor	4 00
	<hr/>
	\$28,358 88
Balance to credit of account, 1900	1,362 59
	<hr/>

\$29,721 47

Schoolhouse Incidentals.

CREDIT.

Appropriations, amount assessed		\$18,000 00
Cash, received of Mary Cotter, Harvard		
School building	\$65 00	
J. H. Stevens, old building	40 00	
J. W. Johnson, old furnace	20 00	
Somerville Iron Foundry, old iron	83 01	
Bishop G. Rogers, rebate on insurance	5 91	
Abatements on Water charges, abatement	6 50	
J. L. Hammett Co., error in pay-roll	22 94	
		<hr/>
		243 36
		<hr/>
		\$18,243 36
Excess and Deficiency, balance to debit of account		625 35
		<hr/>
		\$18,868 71

DEBIT.

Cash, paid G. F. Matthews, carpentering	\$2,717 84	
Warren Hallett, carpentering	787 35	
Harris P. Tibbetts, carpentering	306 86	
H. S. Brackett, carpentering	30 88	
A. M. Waining, carpentering	143 75	
Arthur W. Berry, carpentering	56 00	
T. F. Farrington, carpentering	222 09	
Frank E. Cutler, painting	584 26	
J. Q. Twombly, painting	475 43	
F. S. Dickinson, painting	11 25	
E. T. Peterson, painting	30 00	
Arthur C. Gordon, painting	12 00	
G. A. Walker, painting	13 65	
E. B. Jones, setting glass, etc.	156 73	
W. J. Fermoye, setting glass, etc.	28 25	
John F. O'Brien, setting glass, etc.	6 12	
A. B. Colesworthy, setting glass, etc.	75	
R. C. Burckes, setting glass, etc.	7 74	
Edward Boyd, setting glass, etc.	4 30	
W. F. Flemming, repairing furniture	19 15	
H. A. Clement, repairing furniture	92 50	
L. C. Seavey, roofing	26 56	
Thomas McNee, roofing	5 75	
Thomas Dowd, plastering	229 10	
B. E. Higgins, whitewashing	120 25	
Howe & Flint, repairing heating apparatus	1,268 85	
Alexander E. Duncan, repairing heating apparatus	90 22	
J. W. Johnson, repairing heating apparatus	117 20	
Johnson Electric Service Co., repairing heating apparatus	45 80	
A. A. Sanborn, repairing heating apparatus	487 11	
Cunningham Iron Works, repairing boiler	4 85	
William Campbell & Co., repairing boiler	7 38	
		<hr/>
Amounts carried forward	\$8,109 97	\$18,868 71

Amounts brought forward . . .	\$8,109 97	\$18,868 71
Roberts Iron Works Co., plates . . .	44 24	
D. P. Bucknam, mason work . . .	181 39	
Alfred H. Hines, mason work . . .	149 52	
J. H. Thompson, furniture . . .	11 10	
John B. Rufer, iron work . . .	75	
I. B. Walker, iron work . . .	3 00	
I. H. Brown Moulding Co., lumber . . .	55 61	
W. H. Wood & Co., lumber . . .	60 02	
J. A. Durell, plumbing . . .	313 57	
J. E. Parsons, plumbing . . .	107 79	
John A. Merrifield, plumbing . . .	137 87	
John H. Adcock, plumbing . . .	63 87	
W. L. Snow, plumbing . . .	54 59	
James F. Davlin, plumbing . . .	34 06	
Donnelly & Co., plumbing . . .	25 55	
H. W. Covell, plumbing . . .	10 28	
George H. Maynard, plumbing . . .	6 25	
Boston Feather Duster Co., dusters . . .	104 81	
Jordan & Christie, brushes . . .	92 00	
Murphy, Leavens, & Co., brushes . . .	44 10	
Shepard & Samuel, brooms, etc. . . .	95 65	
Somerville Brush & Mop Co., mops . . .	3 00	
The Fairbanks Co., indicator . . .	6 00	
Gas Consumers' Association, regulator . . .	17 00	
E. S. Van Arsdale, gasfitting . . .	1 85	
George W. Tibbetts, gasfitting . . .	29 86	
Underhill Hardware Co., hardware . . .	265 72	
Whitney & Snow, hardware . . .	246 05	
W. E. Plumer & Co., hardware . . .	177 43	
E. S. Sparrow & Co., hardware . . .	115 27	
William S. Ward, supplies . . .	4 69	
Emory S. Haradon, supplies . . .	1 66	
Prince & Stevens, supplies . . .	1 70	
Bernard F. Sheridan, supplies . . .	2 30	
C. E. Delano, oil . . .	1 60	
H. W. Burgess, rake . . .	35	
P. Sutherland & Co., packing . . .	31 00	
Henry R. Worthington, packing . . .	4 61	
W. S. Burbank & Co., sawdust . . .	1 50	
A. W. Mitchell Mfg. Co., doorplates . . .	3 50	
Pettingill, Andrews Co., batteries . . .	122 09	
Thomas W. Gleeson, electric supplies . . .	12 41	
Walter W. Rowe, electric supplies . . .	1 85	
A. E. Rowe, spring . . .	50	
Fred L. Pulsifer & Co., bell work . . .	4 85	
Asbestos Paper Co., asbestos covering . . .	100 00	
Cutter, Wood, & Stevens Co., tools, etc. . .	132 74	
Thomas Groom & Co., books . . .	5 75	
Norfolk Mfg. Co., soap . . .	26 25	
C. W. Lerner & Co., disinfectant . . .	25 00	
Irving W. Wheeler & Co., flag . . .	9 20	
Sarah Durgan, flags . . .	17 80	
O. S. Merry, repairing flag . . .	3 75	
Amelia H. Wood, repairing flag . . .	3 00	
Patrick Bowdren, care of grounds . . .	109 50	
T. Allen, concreting . . .	222 65	
J. E. Bell, blackboard . . .	340 40	
J. L. Hammett Co., blackboard . . .	71 26	
Amounts carried forward . . .	<u>\$11,830 08</u>	<u>\$18,868 71</u>

Amounts brought forward	\$11,830 08	\$18,868 71
Safety Ladder Co., window jack	9 50	
Somerville Iron Foundry, grate bars	9 00	
T. A. Bent, fence	15 00	
Fred W. Farrar, clock work	136 85	
Moulton C. Libbey, clock work	7 00	
Mina J. Wendell, disbursements	15 00	
L. J. Brooks, disbursements	1 50	
William Butler, labor	20 00	
J. L. Whitaker, labor	1 00	
E. O. Arnold & Co., cleaning carpet	6 96	
M. J. Coneeny, grading	121 00	
Chandler Adjustable Chair and Desk Works, furniture	268 93	
Heywood Bros. & Wakefield Co., fur- niture	97 51	
American School Furniture Co., furni- ture	508 59	
Leila Colby Pennock, furniture	14 00	
Derby Desk Co., furniture	56 95	
John H. Pray, Sons, & Co., carpets	177 73	
Jordan, Marsh, & Co., rugs	16 80	
William E. Daniels, shades	150 70	
C. R. Banks, glass	3 00	
C. H. Crane, telephone	1 80	
Couch & Seeley Co., telephones	17 56	
H. Wood, repairing lock	29 10	
B. F. Sturtevant & Co., repairs of engine Knowles Steam Pump Works, repairing pump	14 47	
Charles L. Underhill, iron work	44 89	
George W. Manning, labor	2 55	
William H. Waterfall, refreshments	174 60	
Cambridge Gaslight Co., gas	12 00	
Charlestown Gas & Electric Co., gas	499 09	
Somerville Electric Light Co., lighting	326 08	
City of Somerville, water	449 33	
City of Somerville, sidewalk assessment	1,690 26	
William H. Flynn, premium of insurance	119 88	
Willard C. Hill, premium of insurance	120 00	
Charles S. Robertson, premium of insur- ance	600 00	
Foster & Sias, premium of insurance	699 00	
Harry A. True, premium of insurance	112 50	
I. B. Kendall, premium of insurance	75 00	
F. J. Hamblin, premium of insurance	112 50	
Hartford Steam Boiler Inspection & In- surance Co., insurance	45 00	
M. E. Youngjohn, calico	50 00	
Glines & Co., expressing	1 25	
R. A. R. Benson, expressing	121 88	
Boyle Express Co., expressing	61 00	
George T. Day, expressing	2 00	
M. G. Staples, expressing	2 15	
E. R. Perham, expressing	6 00	
Gilman Express Co., expressing	75	
Highways account, crushed stone	67	
Jackson Caldwell & Co., furniture	6 30	
	4 00	
		<u>\$18,868 71</u>

School Teachers' Salaries.

CREDIT.

Appropriations, amount assessed	\$191,000 00
Excess and Deficiency, balance to debit of account	1,959 90
	<hr/>
	\$192,959 90

DEBIT.

Cash, paid salaries as per pay-rolls	\$192,959 90
	<hr/>

Sewer Assessments.

CREDIT.

Cash, received of sundry persons	\$6,909 42
Sewers Construction account, abatements	886 43
Balance to debit of account, 1900	6,046 98
	<hr/>
	\$13,842 83

DEBIT.

Balance from 1898	\$7,435 90
Sewers Construction account, assessments levied	6,406 93
	<hr/>
	\$13,842 83

Sewers Construction.

CREDIT.

Balance from 1898	\$16,882 23
Excess and Deficiency account, amount transferred	16,549 22
Water Works Income account, amount transferred	19,722 75
Abatements on Water Charges, amount transferred	5,880 82
Sewer Assessments, assessments levied	6,406 93
Cash, received of Jason W. Gilpatrick, draining three lots into Medford- street sewer	\$101 70
West Somerville Congregational church, constructing drain	75 00
Sprague & Hathaway Co., constructing drain	50 00
Charles A. Kelley, pipe	6 02
Charles A. Kelley, amount overpaid on sewer	1,112 00
George T. Bosson and L. R. Wentworth, Trustees, dividend on bill for sewer	6 25
Support of Poor, "City Home," one-half cost of constructing sewer	442 93
Sidewalks account, edgestones	21 33
	<hr/>
	1,815 23
Amount carried forward	\$67,257 18

Amount brought forward \$67,257 18

DEBIT.

Cash, paid laborers	\$2,295 93
George D. Goodrich, drain pipe	1,984 79
Portland Stone Ware Co., drain pipe	528 31
David W. Lewis, drain pipe	1,345 02
Berry & Ferguson, cement	43 00
Fiske, Holmes, & Co., cement	44 00
M. A. Simpson, sand	16 50
W. A. Sanborn, bricks	439 95
Charles A. Kelley, bricks	3 60
Osgood & Hart, covers, etc.	1,126 13
Barbour, Stockwell, & Co., steel sheets	14 00
Edwin Connell, plumbing	6 00
T. F. Culliton, iron work	1 00
G. F. Matthews, carpentering	36 95
Arthur C. Gordon, setting glass	8 00
James Tevlin, use of teams	475 57
Charles L. Underhill, iron steps, etc.	58 55
Thomas Groom & Co., book	7 25
Robert Burlen, binding plans	18 00
George O. W. Servis, photographs	15 80
Ernest W. Danforth, car fares	11 25
Boston & Maine Railroad, freight	676 76
John Stackpole, services as expert	25 00
Martin W. Carr, compensation for damages	815 00
Highways account, repairing sidewalk	199 05
Water Maintenance account, laying pipe	36 40
Sewers Maintenance account, drain pipe	260 00
Thomas H. Bryne, storm water drain in Broadway and Cross street	801 74
Richard Falvey, storm water drain in Broadway and Sargent avenue	682 45
Richard Falvey, sewer in Windham road	195 14
Richard Falvey, sewer in private lands and North street	564 13
C. E. Trumbull & Co., storm-water drain in Sherman court, Marshall street, and Gilman square	926 38
C. E. Trumbull & Co., sewer in Somerville avenue	3,520 44
C. E. Trumbull & Co., sewer in Day street	26 37
Charles A. Mongan, sewer in Broadway	322 54
Charles A. Mongan, sewer in Sycamore and Willoughby streets	384 32
Daniel A. Dorey, sewer in Liberty avenue	115 70
Daniel A. Dorey, sewer in College avenue	120 87
Daniel A. Dorey, sewer in Prospect and Newton streets	3,439 97
Daniel A. Dorey, sewer in Raymond avenue	147 28
Daniel A. Dorey, sewer in Curtis street	77 31
Dennis C. Collins, sewer in Murray street	145 35

Amounts carried forward	\$21,961 80	\$67,257 18
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Amounts brought forward	\$21,961 80	\$67,257 18
Charles A. Kelley, sewers in Concord square district	4,620 58	
Charles A. Kelley, sewer in Medford street	145 63	
Charles A. Kelley, sewer in Evergreen avenue	183 52	
Charles A. Kelley, sewer in Jenny Lind avenue	72 92	
Charles A. Kelley, sewer in Tennyson street	10 38	
Maurice Buttimer, storm-water drain in School street	304 89	
H. A. Hanscom & Co., sewers in Concord square district	4,441 12	
Timothy F. Crimmings, sewer in Packard avenue	1,131 14	
Timothy F. Crimmings, sewer in Somerville avenue	156 33	
William F. Cunningham, final payments on sundry sewers	116 48	
William F. Cunningham, sewer in Faragut avenue	52 17	
William F. Cunningham, sewer in Garrison avenue	46 04	
William F. Cunningham, sewer in Endicott avenue	70 45	
William F. Cunningham, sewer in Woodstock street	83 40	
	<hr/>	
	\$33,396 85	
Sewer Assessment account, abatements	886 43	
	<hr/>	
	\$34,283 28	
Balance to credit of account, 1900	32,973 90	
	<hr/>	
		\$67,257 18
		<hr/>

Sewers Maintenance.

CREDIT.

Water Works Income, amount transferred		\$8,500 00
Cash, received of Boston Elevated Railway Co., changing grade	\$57 66	
Massachusetts Pipe Line Gas Co., inspecting sewers	364 11	
New England Telephone & Telegraph Co., inspecting drains	75 93	
J. C. Snow, et al., manhole	24 53	
Somerville Iron Foundry, old iron	9 24	
Public Grounds account, labor, etc.	21 18	
Fire Department, Fire Station, Clarendon Hill, labor, etc.	13 93	
Powder-house Boulevard, old iron	20 00	
Sewers Construction, drain pipe	260 00	
	<hr/>	
		846 58
		<hr/>
		\$9,346 58
Excess and Deficiency, balance to debit of account		95 08
		<hr/>
Amount carried forward		\$9,441 66

Amount brought forward \$9,441 66

DEBIT.

Cash, paid laborers	\$5,969 29
James Tevlin, teaming	1,989 19
Portland Stone Ware Co., drain pipe	260 00
George D. Goodrich, drain pipe	27 48
David W. Lewis, cement	80 30
Whitney & Snow, cement	134 42
Berry & Ferguson, cement	8 40
W. A. Sanborn, bricks	108 85
Charles A. Mongan, bricks	1 80
M. A. Simpson, sand	4 50
Boston Coupling Co., couplings	6 05
Howe & Flint, hardware	1 50
Wellington Smith, catch-basin stones	33 00
Albert B. Lowe, rope ladder	8 00
Osgood & Hart, traps, etc.	53 02
E. Spalding, washers	60
F. Dooris, repairing tools	5 20
Charles L. Underhill, repairing tools	34 84
Edson Mfg. Co., repairing tools	72 88
Charles E. Berry, repairing tools	1 25
I. B. Walker, repairing tools	3 20
Ames Plow Co., tools	14 00
Williams Table & Lumber Co., tools	7 75
F. D. Weld, ladder	3 45
Charles A. Mongan, repairing drain	8 43
Patrick Burke, repairing drain	1 50
G. F. Matthews, carpentering	24 23
The Citizen Co., printing	50
Thomas Groom & Co., books	28 25
M. L. Vinal, book	1 20
John Fisher, buckets	1 90
G. D. Sherman, clothing	25 50
T. C. Pinkham, rubber boots	17 25
A. Goldstein, rubber boots	33 35
Nathan Tufts & Sons, bags	5 00
Fulton O'Brion, bags	4 00
Lynn Electric Novelty Co., light	5 00
T. M. Kenney, register	25 00
J. L. McIntosh, dials	50
I. H. Brown Moulding Co., lumber	53
F. C. Ayer, lumber	2 30
E. A. Gillett & Sons, lumber	9 20
S. M. Farnsworth, roofing	100 00
H. Wood, keys	1 05
Ernest W. Danforth, car fares	29 80
Wellington-Wild Coal Co., fuel	11 40
F. O. Reed, rent of water course for drainage	150 00
Frank Reed, rent of water course	75 00
W. F. Holmes, medical attendance	7 00
City of Somerville, water	43 78
E. R. Perham, expressing	15
Gilman Express Co., expressing	87

\$9,441 66

Sidewalks.**CREDIT.**

Appropriations, amount assessed	\$10,000 00
Highways, Paving Webster Avenue, amount transferred	82 91
Sidewalk assessments levied	9,883 77
Cash, received Harrison G. O. Bowers, edge- stones	\$236 84
Emma J. Pushee, edgestones	42 08
James Rawson, edgestones	34 36
T. A. Shedd, edgestones	42 79
Albert H. Bickford, sidewalk	30 63
S. H. Abbott, sidewalk	270 00
J. Alba Davis, reconstructing sidewalk	26 01
Highways account, bricks, etc.	235 21
Sewers Construction, edgestones	2 49
	<hr/>
	920 41

	\$20,887 09
Excess and Deficiency, balance to debit of account	124 45
	<hr/>
	\$21,011 54

DEBIT.

Cash, paid laborers	\$6,182 96
S. & R. J. Lombard, edgestones	4,777 24
W. A. Sanborn, bricks	4,872 24
W. A. Murtfeldt Co., bricks	312 30
D. Washburn & Sons, bricks	286 00
Thomas Casey, bricks	1,128 68
Portland Stone Ware Co., bricks	112 13
Somerville Journal Co., advertising	241 50
The Citizen Co., advertising	151 50
Thomas Groom & Co., books	26 00
Richard Falvey, teaming	4 50
Martin Gill, teaming	4 50
E. Littlefield, Trustee, sidewalk	28 50
Highways account, city teams, etc.	2,834 15
Sewers Construction, edgestones	23 82
Powder-house Boulevard, sod	22 70
Sidewalk Assessments, assessments abated	2 82
	<hr/>
	\$21,011 54

Sidewalk Assessments.**CREDIT.**

Cash, received of sundry persons	\$11,687 97
Sidewalks, assessments abated	2 82
	<hr/>
	\$11,690 79
Balance to debit of account, 1900	3,386 09
	<hr/>
	\$15,076 88

DEBIT.

Balance from 1898	\$5,193 11
Sidewalks, assessments levied	9,883 77
	<hr/>
	\$15,076 88

State Aid.

CREDIT.

State of Massachusetts, amount paid in 1899, charged to state	\$10,793 00
Cash, sundry persons, money not called for	93 00
	<u>\$10,886 00</u>

DEBIT.

Cash, paid monthly pay-rolls	<u>\$10,886 00</u>
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State of Massachusetts.

CREDIT.

Appropriations, amount appropriated	\$27,075 00
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DEBIT.

Cash, paid State Treasurer, state tax	<u>\$27,075 00</u>
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State of Massachusetts, Metropolitan Sewer.

CREDIT.

Appropriations, amount assessed	\$42,858 09
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DEBIT.

Cash, paid State Treasurer, assessment of 1899	<u>\$42,858 09</u>
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Reduction of Funded Debt, Metropolitan Sewer Assessment.

CREDIT.

Water Works Income account, amount transferred	\$31,000 00
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DEBIT.

Balance to credit of account, 1900	<u>\$31,000 00</u>
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State of Massachusetts, Metropolitan Water Assessment.

CREDIT.

Appropriations, amount appropriated from Water Works Income	\$20,975 58
Cash, received of Commonwealth of Massachusetts, rebate on water receipts	2,577 19
	<u>\$23,552 77</u>

DEBIT.

Cash, paid State Treasurer, Metropolitan water assessment for the year 1899	\$20,975 58
Excess and Deficiency, balance to credit in account, 1900	2,577 19
	<u>\$23,552 77</u>

State of Massachusetts, Non-resident Bank Stock.

CREDIT.

Appropriations, amount assessed	\$995 12
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DEBIT.

Cash, paid State Treasurer, amount collected on non-resident bank stock	\$995 12
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State of Massachusetts, Burial of Indigent Soldiers and Sailors.

CREDIT.

Cash, received of State Treasurer for burials in 1898 . . .	\$455 00
Balance December 31, 1899, due from state December 10, 1900	350 00
	<u>\$805 00</u>

DEBIT.

Balance from 1898	\$455 00
Relief and burial of indigent soldiers and sailors	350 00
	<u>\$805 00</u>

State of Massachusetts, Indigent Soldiers and Sailors.

CREDIT.

Cash, received of State Treasurer	\$269 00
Balance December 31, 1899, due from state December 10, 1900	231 50
	<u>\$500 50</u>

DEBIT.

Balance from 1898	\$257 00
Indigent Soldiers and Sailors, one-half of amount paid in 1899	243 50
	<u>\$500 50</u>

State of Massachusetts, State Aid.

CREDIT.

Cash, received of State Treasurer	\$10,972 50
Balance December 31, 1899, due from state December 10, 1900	10,669 00
	<u>\$21,641 50</u>

DEBIT.

Balance from 1898	\$10,848 50
State Aid, amount paid in 1899	10,793 00
	<u>\$21,641 50</u>

Street Lights.

CREDIT.

Appropriations, amount assessed	\$50,000 00
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DEBIT.

Cash, paid Somerville Electric Light Co., lighting	\$45,937 22	
Somerville Electric Light Co., moving light	42 00	
Welsbach Street Lighting Co. of America, lighting	3,585 29	
Moving light	5 00	
Somerville Journal Co., printing	5 00	
	<hr/>	
	\$49,574 51	
Excess and Deficiency, balance to credit of account	425 49	
	<hr/>	
		\$50,000 00

Sundry Persons.

CREDIT.

Balance from 1898	\$27,473 60
Water Loan Interest, coupons not paid	2,327 50
Interest, coupons not paid	22,780 00
	<hr/>
	\$52,581 10

DEBIT.

Cash, paid Sundry Persons, amounts due them	\$23,185 00
Balance to credit of account, 1900	29,396 10
	<hr/>
	\$52,581 10

Support of Poor, "City Home."

CREDIT.

Balance from 1898	\$20,000 00
Public Grounds account, amount transferred	1,000 00
Cash, received of Frank W. Kaan, city solicitor, balance re- turned on account of payment for land	410 00
	<hr/>
	\$21,410 00

DEBIT.

Cash, paid Irving L. Russell for heirs of Levi Russell, land	\$12,410 00	
Arthur W. Berry, carpentering	980 16	
George W. Gale Lumber Co., lumber	314 48	
A. W. Hastings Co., doors and win- dows	94 41	
Howe & Flint, furnace	312 60	
W. L. Snow, plumbing	440 54	
E. S. Sparrow & Co., nails	28 29	
	<hr/>	
Amounts carried forward	\$14,580 48	\$21,410 00

Amounts brought forward . . .	\$14,580 48	\$21,410 00
W. A. Smith, moving building . . .	60 00	
Berry & Ferguson, lime . . .	18 70	
Sewers Construction account, one-half cost of sewer . . .	442 93	
City of Somerville, taxes of 1899 . . .	307 14	
	<hr/>	
	\$15,409 25	
Balance to credit of account, 1900 . . .	6,000 75	
	<hr/>	
		\$21,410 00

Support of Poor, Miscellaneous.

CREDIT.

Appropriations, amount assessed . . .		\$22,000 00
Cash, received for support of paupers:—		
Of State of Massachusetts . . .	\$2,428 14	
Of City of Boston . . .	982 98	
Of City of Cambridge . . .	765 80	
Of City of Gloucester . . .	10 90	
Of City of Haverhill . . .	16 70	
Of City of Brockton . . .	38 86	
Of City of Chelsea . . .	95 28	
Of City of Everett . . .	45 72	
Of City of Lowell . . .	113 55	
Of City of Lynn . . .	24 83	
Of City of Melrose . . .	144 89	
Of City of Marlborough . . .	1 25	
Of City of Newburyport . . .	15 00	
Of City of Salem . . .	29 28	
Of City of Springfield . . .	1 30	
Of City of Worcester . . .	10 00	
Of Town of Arlington . . .	33 55	
Of Town of Canton . . .	3 40	
Of Town of Hingham . . .	39 16	
Of Town of Merrimac . . .	11 40	
Of Town of North Andover . . .	50 79	
Of Town of Plymouth . . .	54 23	
Of Town of Reading . . .	15 00	
Of Town of Stoneham . . .	25 93	
Of Town of Tewksbury . . .	2 30	
Of City of Woburn . . .	47 75	
Charles I. Davis, aid furnished . . .	146 00	
Albert Gilman, aid furnished . . .	169 47	
Newman S. Wax, aid furnished . . .	113 29	
Thomas F. Muldoon, aid furnished . . .	12 00	
Florence E. Walker, aid furnished . . .	43 00	
Elizabeth Pennie, aid furnished . . .	33 93	
John McCormack, aid furnished . . .	28 79	
John F. Kenneally, aid furnished . . .	9 14	
Richard Moore, aid furnished . . .	69 18	
Squire E. Putney, aid furnished . . .	30 00	
H. Burr Crandall, aid furnished . . .	125 00	
Herbert C. Wolfson, aid furnished . . .	20 57	
Cornelius Leary, bill entered twice . . .	19 00	
Cambridge Gaslight Co., discount . . .	04	
	<hr/>	
		5,827 40
Amount carried forward . . .		\$27,827 40

Amount brought forward	\$27,827 40
Excess and Deficiency, balance to debit of account	1,096 99
	<hr/>
	\$28,924 39

DEBIT.

Cash, paid Commonwealth of Massachusetts, support of paupers	\$1,448 39
Massachusetts Hospital for Dipso- maniacs	349 92
Massachusetts School for Feeble- Minded	548 39
Worcester Insane Asylum	739 74
Worcester Insane Hospital	2,734 25
Westborough Insane Hospital	582 99
Danvers Insane Hospital	918 83
Medfield Insane Asylum	1,819 20
Taunton Insane Hospital	189 31
Boston Insane Hospital	169 46
Somerville Hospital	2,645 41
Hospital Cottages for Children	41 78
The Children's Hospital	15 00
City of Boston	892 78
City of Brockton	22 42
City of Cambridge	348 31
City of Chelsea	31 75
City of Gloucester	6 00
City of Everett	1 50
City of Malden	330 43
City of Medford	69 60
City of Waltham	62 57
Town of Attleborough	89 50
Town of Carlisle	32 00
Town of Danvers	24 00
Town of Melrose	44 00
Town of Milford	28 15
Town of Peabody	102 21
Town of Revere	288 99
Town of Stoughton	114 00
Town of Swampscott	34 00
Ellen Driscoll, rent	40 00
Ellen Mahoney, rent	84 00
Sophia Knapp, board	57 12
Elizabeth E. Remington, board	17 15
Mary Shean, board	118 66
A. Crafts Wade, board	53 92
Julia Campbell, board	214 56
Mary Budreau, board	52 17
Emily M. Higgins, board	97 73
Margaret McCarthy, board	84 00
Addie D. Haynes, board	146 87
Susan McDonald, board	40 00
Adelaide Pendexter, board	57 90
L. F. Gilman, board	25 93
Clara Roberts, board	169 46
Nellie Sherman, board	31 06
Francis W. Bakeman, Guardian, board	216 56
Mrs. E. Wilcomb, board	13 29
Teresa Williams, board	73 50
	<hr/>
Amounts carried forward	\$16,318 76
	<hr/>
	\$28,924 39

Amounts brought forward	\$16,318 76	\$28,924 39
Lottie Reading, board	43 73	
Mabel Christie, board	134 41	
Isabel J. Seegee, board	10 00	
Almyra J. Wilson, board	4 43	
Kurn Hattin Homes, board	150 00	
Emma E. Perkins, cash allowance . .	60 00	
Maria Keady, nursing	5 14	
C. C. Folsom, salary as agent	1,500 00	
Disbursements	317 16	
W. F. Holmes, salary as City Physi- cian	32 26	
A. R. Perry, salary as City Physician .	965 05	
Medicine	70 80	
Mr. and Mrs. J. Foster Colquhoun, ser- vices as warden and matron	150 00	
Disbursements	2 75	
Cora F. Lewis, salary as secretary . .	600 00	
Sarah J. Lamont, clerical services . .	52 57	
Alma E. Harvey, services	24 60	
George A. Wheeler, professional ser- vices	10 00	
A. B. Dearborn, professional services .	2 69	
Johr. McDonald, medicine	1 50	
H. S. Garcelon, medicine	19 75	
Henry D. Padelford, medicine	5 05	
A. Cunningham, medicine	1 40	
Bell & Co., medicine	4 00	
C. H. Goldthwaite, medicine	87 31	
J. E. Richardson, medicine	2 75	
Charles S. Lombard, medicine	16 79	
Alameda Co., medicine	5 30	
Theodore Metcalf Co., medicine	2 85	
L. H. Buzzell & Vail, medicine	22 51	
Arthur J. Connor Co., medicine	15 25	
A. C. Sherman, medicine	1 00	
Reuben Ring & Co., medicine	8 75	
Frederick W. Gay, medicine	27 00	
T. H. Fenelon, medicine	14 10	
J. F. Thompson, medicine	18 03	
Herbert E. Bowman, medicine	31 00	
Howard E. Hamblen, medicine	165 45	
Milton H. Plummer, medicine	127 35	
A. T. McColgan, medicine	13 23	
F. W. Robie, medicine	67 34	
C. H. Crane, medicine	20 25	
George C. Goodwin, medicine	54 48	
R. G. Perkins, medicine	19 94	
A. B. Grover, medicine	9 65	
E. F. Chaffee, medicine	2 25	
S. M. Lawrence, milk	11 20	
R. M. Sturtevant, groceries	481 34	
William S. Ward, groceries	670 50	
Medford-street Market, groceries . .	584 58	
A. F. Carpenter, groceries	296 89	
Christopher Brothers, groceries . . .	106 00	
Sawyer & Read, groceries	278 59	
James H. Maguire, groceries	260 00	
W. H. Bullard, groceries	43 96	
Amounts carried forward	\$23,951 69	\$28,924 39

Amounts brought forward	\$23,951 69	\$28,924 39
F. L. Card, groceries	72 00	
A. E. Robie, groceries	141 50	
Charles S. Butters, groceries	90 75	
F. J. Hopkins, groceries	2 49	
D. E. Watson, groceries	19 70	
Charles A. Small & Co., groceries	29 50	
C. N. Brown & Co., groceries	64 00	
Farnam Brothers, groceries	30 00	
Emerson R. Christopher, groceries	48 00	
John D. Taapken, groceries	2 12	
L. A. Wright & Co., groceries	14 83	
E. S. Conant & Co., groceries	53 98	
Wanzer & Whitcomb, groceries	22 22	
Benjamin F. Shattuck, groceries	7 00	
Excelsior Creamery, groceries	91 09	
Annie Kelley, groceries	3 11	
H. H. Skidmore, groceries	3 68	
L. Stockbridge, groceries	35 99	
N. R. Barrows, groceries	34 50	
J. G. Albee, groceries	28 25	
W. C. Blanchard, groceries	184 77	
M. L. King, groceries	12 24	
C. L. Stevens, groceries	44 00	
F. E. Cheney & Co., groceries	36 50	
James Bartley, groceries	73 00	
J. E. Glidden, groceries	55 00	
National Biscuit Co., crackers	1 06	
J. H. Brooks, dry goods	41 10	
F. W. Gilbert, boots and shoes	7 40	
I. C. Earl & Sons, boots and shoes	2 40	
Philip Eberle, boots and shoes	94 45	
C. J. Bailey & Co., rubber goods	5 15	
James W. Brine, clothing	3 50	
Farley, Harvey, & Co., bed furnishings	168 29	
Fowle & Pearson, clothing	12 50	
Brown, Durell, & Co., clothing	32 54	
Miner, Beale, & Co., clothing	31 50	
P. Derby & Co., furniture	46 79	
Jackson Caldwell & Co., furniture	530 80	
J. C. Snow, tables	25 00	
William Leavens & Co., table	2 60	
Clara Reed, tablecloth	6 25	
Michael Foley, storage	2 50	
H. G. White, labor	32 00	
Alexander Nelson, steel shoe	2 50	
Anchor Electric Co., electric supplies	93 15	
Pettingill Andrews Co., electric supplies	5 04	
Magee Furnace Co., ranges	104 75	
W. L. Snow, boiler	48 98	
Churchill & Hill Store Furnishing Co., refrigerator	110 00	
A. W. Hastings & Co., doors	9 20	
J. C. H. Snow, boxes	4 25	
M. C. Warren & Co., cutlery	24 40	
Jordan, Marsh, & Co., hardware	21 59	
E. S. Sparrow & Co., hardware	63 19	
W. E. Plumer & Co., hardware	42 98	

Amounts carried forward	\$26,727 77	\$28,924 39
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Amounts brought forward . . .	\$26,727 77	\$28,924 39
Dover Stamping Co., hardware . . .	19 16	
Howe & Flint, ash barrels, etc. . .	32 98	
Library Bureau, cards . . .	3 25	
F. W. Jackman, printing . . .	12 00	
S. J. Jackman, printing . . .	6 25	
Somerville Journal Co., printing . . .	23 40	
Thomas Groom & Co., stationery . . .	61 05	
W. A. Greenough & Co., directory . . .	3 00	
Alfred H. Hines, mason work . . .	35 10	
Arthur W. Berry, carpentering . . .	323 85	
George W. Gale Lumber Co., lumber . . .	96 37	
L. W. Bowen, paper hanging . . .	132 53	
H. Wood, filing saws . . .	3 00	
Wellington-Wild Coal Co., fuel . . .	845 24	
Cambridge Gaslight Co., gas . . .	56	
Somerville Electric Light Co., lighting . . .	13 32	
New England Telephone & Telegraph Co., rentals and tolls . . .	119 90	
Howard Lowell & Son, carriage hire . . .	13 00	
David Fudge & Son, services as undertakers . . .	20 00	
Alfred E. Mann, services as undertaker . . .	30 00	
William A. Flaherty, services as undertaker . . .	55 00	
C. H. Lockhart, services as undertaker . . .	55 00	
P. H. Rafferty, services as undertaker . . .	60 00	
John S. McGowan, services as undertaker . . .	50 00	
G. F. McKenna, services as undertaker . . .	30 00	
Brown & Cowan, refreshments . . .	18 25	
Charles S. Robertson, premium of insurance . . .	112 50	
George T. Day, expressing . . .	1 50	
M. G. Staples, expressing . . .	11 00	
R. A. R. Benson, expressing . . .	3 50	
A. M. Prescott, expressing . . .	2 00	
Glines & Co., expressing . . .	50	
Gilman Express Co., expressing . . .	3 41	
		<u>\$28,924 39</u>

Taxes.

CREDIT.

Cash, received for taxes of 1890 . . .	\$2 00	
“ “ “ “ 1892 . . .	2 00	
“ “ “ “ 1893 . . .	118 65	
“ “ “ “ 1894 . . .	217 57	
“ “ “ “ 1895 . . .	563 34	
“ “ “ “ 1896 . . .	1,185 12	
“ “ “ “ 1897 . . .	67,088 57	
“ “ “ “ 1898 . . .	161,761 68	
“ “ “ “ 1899 . . .	613,529 67	
		<u>\$844,468 60</u>
Real Estate Liens, titles to the city for non-payment of taxes of 1897 . . .	\$615 88	
Real Estate Liens, titles to the city for non-payment of taxes of 1898 . . .	628 29	
		<u>1,244 17</u>
Amount carried forward . . .		\$845,712 77

Amount brought forward		\$845,712 77	
Overlay and Abatement:—			
Abatements on taxes of 1892	\$2 00		
“ “ “ “ 1893	12 00		
“ “ “ “ 1894	16 00		
“ “ “ “ 1895	22 00		
“ “ “ “ 1896	53 72		
“ “ “ “ 1897	158 72		
“ “ “ “ 1898	881 16		
“ “ “ “ 1899	3,250 57		
			4,396 17
Balance to debit in account, 1900:—			
Being uncollected taxes of 1889	\$46 60		
“ “ “ “ 1890	7,216 20		
“ “ “ “ 1891	57 40		
“ “ “ “ 1892	246 50		
“ “ “ “ 1893	6,466 00		
“ “ “ “ 1894	6,432 90		
“ “ “ “ 1895	7,032 26		
“ “ “ “ 1896	8,512 60		
“ “ “ “ 1897	9,033 47		
“ “ “ “ 1898	77,281 56		
“ “ “ “ 1899	265,800 72		
			388,126 21
			<u>\$1,238,235 15</u>

DEBIT.

Balance from 1898	\$355,654 19	
Appropriations, amount assessed for current expenses	739,800 00	
State of Massachusetts, amount assessed for State Tax	27,075 00	
State of Massachusetts, amount assessed for payment of Metropolitan Sewer Assessment	42,858 09	
State of Massachusetts, amount assessed on non-resident national bank stock	995 12	
County of Middlesex, amount assessed for County tax	48,923 22	
Street Watering, amount assessed for payment of a proportionate part of cost of watering streets for 1899	13,993 84	
Overlay and Abatement, amount added by the Assessors	8,935 69	
		<u>\$1,238,235 15</u>

Temporary Loans.

CREDIT.

Balance from 1898		\$300,000 00
Cash, borrowed by authority of the City Council on notes as follows:—		
The Boston Five Cents Savings Bank, six months, 3 per cent.	\$100,000 00	
The Boston Five Cents Savings Bank, seven months, 3 per cent.	100,000 00	
		<u>\$200,000 00</u>
Amounts carried forward	\$200,000 00	\$300,000 00

Amounts brought forward	\$200,000 00	\$300,000 00
The Boston Five Cents Savings Bank, four months, 3 per cent.	100,000 00	
F. S. Moseley & Co., three months, 3.59 per cent.	100,000 00	
The Boston Five Cents Savings Bank, six months, 4.2 per cent.	100,000 00	
Selwyn Z. Bowman, six months, 4.2 per cent.	10,000 00	
The Boston Five Cents Savings Bank, six months, 4 per cent.	100,000 00	
Rogers, Newman, & Tolman, four months, 4.1 per cent.	100,000 00	
	<hr/>	\$710,000 00
		<hr/>
		\$1,010,000 00

DEBIT.

Cash, paid as follows:—

The Boston Five Cents Savings Bank, six months, 3 per cent.	\$100,000 00	
The Boston Five Cents Savings Bank, six months, 2.93 per cent.	100,000 00	
F. S. Moseley & Co., seven months, 2.70 per cent.	100,000 00	
The Boston Five Cents Savings Bank, six months, 3 per cent.	100,000 00	
The Boston Five Cents Savings Bank, seven months, 3 per cent.	100,000 00	
The Boston Five Cents Savings Bank, four month, 3 per cent.	100,000 00	
Commonwealth of Massachusetts, three months, 3.59 per cent.	100,000 00	
	<hr/>	\$700,000 00
Balance to credit in account, 1900	310,000 00	
	<hr/>	\$1,010,000 00
		<hr/>

Water Loan Interest.

CREDIT.

Water Works Income, amount appropriated	\$10,882 50
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DEBIT.

Cash, paid on Water Loan debt:—

\$232,000, one year, at 4 per cent.	\$9,280 00	
\$2,000, six months, at 4 per cent.	40 00	
\$12,500, one year, at 5 per cent.	625 00	
\$15,500, six months, at 5 per cent.	387 50	
\$10,000, one year, at 5½ per cent.	550 00	
	<hr/>	\$10,882 50
Less coupons unpaid	2,327 50	
	<hr/>	\$8,555 00
Sundry Persons, unpaid coupons	2,327 50	
	<hr/>	\$10,882 50
		<hr/>

Water Maintenance.

CREDIT.

Water Works Income, amount appropriated		\$50,000 00
Water Services, amount transferred		114 48
Cash, received of sundry persons, turning off and on water	\$210 00	
Water Service account, stock, labor, etc.	2,199 92	
Water Works Extension account, stock, etc.	6,541 50	
Sewers Construction account, pipe, etc.	36 40	
Massachusetts Pipe Line Gas Co., stock, etc.	911 38	
Metropolitan Water Board, operating ex- penses	5,141 56	
Trustees Tufts College, relaying pipe	806 74	
New England Telephone & Telegraph Co., repairing water pipe	152 50	
Derby Desk Co., repairing supply pipe	28 17	
Independent Ice Co., repairing hydrant	17 75	
E. T. Merrill & Co., repairs	2 79	
William H. Haynes, repairing service pipe	3 32	
Luther G. Dearborn, repairing service pipe	3 85	
Frederick Haartz, replacing service pipe	18 88	
Willard Glidden, extending service pipe	6 09	
Annie L. Staples, laying pipe	6 37	
Heirs Henry R. Glover, replacing service pipe	11 68	
David G. Marston, replacing service pipe	16 12	
J. E. McDonald, labor	4 75	
Fitchburg Railroad Co., labor	5 25	
Charlestown Gas & Electric Co., labor	2 36	
Michael Brady, fence	3 00	
P. J. O'Malley, fence	10 00	
Boston Elevated Railway Co., moving main gate	16 56	
D. Morrison, old brass	37 18	
M. Ravenouze, old brass	46 00	
New England Dressed Meat & Wool Co., fittings	9 85	
Middlesex Bleachery Dye & Print Works, setting water gate	27 75	
John P. Squire & Co., fittings	66 21	
City of Malden, fittings	121 45	
H. M. Taylor, fittings	58 21	
Braman, Dow, & Co., fittings	4 80	
Herbert S. Kingman, fittings	1 50	
Augustine Boudry, fittings	1 50	
Cambridge Gaslight Co., fitting	60	
D. J. Keefe, fitting	2 00	
Henry W. Dow, manure	10 00	
Somerville Electric Light Co., laying water pipe	59 86	
Franklin O. Reed, deficiency in revenue	16 48	
Dudley F. Hunt and Edward S. Eaton, deficiency in revenue	11 00	
Amounts carried forward	<u>\$16,631 33</u>	<u>\$50,114 48</u>

Amounts brought forward	\$16,631 33	\$50,114 48
Mary E. Booth, deficiency in revenue	9 00	
Sundry persons, costs on water rates	46 00	
Public Grounds account, labor, etc.	27 99	
Public Grounds, Lincoln Park account, labor	97 64	
	<hr/>	\$16,811 96
		<hr/>
		\$66,926 44

DEBIT.

Cash, paid laborers	\$26,239 87	
Frank E. Merrill, salary as clerk and superintendent	2,300 00	
Disbursements	222 04	
Florence E. Barton, salary as assistant to clerk	769 65	
V. Florence Walker, salary as assistant to clerk	578 35	
Edward M. Shedd, inspector	1,200 00	
S. E. Hayden, salary as engineer	1,100 00	
Nathan Tufts & Sons, hay and grain	266 69	
G. W. Ladd Co., hay and grain	305 71	
Fulton O'Brien, hay and grain	131 27	
J. F. Emerson, hay	14 80	
Charles L. Underhill, repairing wagon	174 68	
Hale & Mayhew Co., repairing wagon	69 00	
A. M. Wood Co., iron	1 87	
F. Dooris, repairing tools	223 94	
T. F. Culliton, repairing tools	10 20	
W. E. Plumer & Co., tools	456 67	
Perrin, Seamans, & Co., tools	97 22	
William H. Field, band saw	130 00	
William H. Gallison Co., tools	30 73	
Walworth Mfg. Co., tools	159 25	
Underhill Hardware Co., tools	132 43	
A. J. Wilkinson & Co., tools	11 65	
Hill, Clark, & Co., lathe	137 00	
George D. Goodrich, drain pipe	21 49	
Boston Woven Hose & Rubber Co., tub- ing	8 00	
Cornelius Callahan Co., hose	37 50	
C. Caseau, painting	63 00	
F. J. Almeder, painting	193 55	
Standard Paint Co., paint	6 00	
H. W. Bickford, carpentering	35 07	
John McGarr, carpentering	12 48	
Jerome J. Pratt, plumbing	17 41	
W. F. Bennett, plumbing	16 20	
E. Spalding, harness work	212 40	
John Rooney, horseshoeing	28 00	
Edward O'Brien, horseshoeing	83 14	
I. B. Walker, horseshoeing	293 62	
William Flaherty, horseshoeing	1 50	
H. Mueller Mfg. Co., fittings	970 69	
Braman, Dow, & Co., fittings	1,300 45	
Edgar Hall, fittings	17 15	
Henry R. Worthington, fittings	2 50	
Miller & Shaw, fittings	41 63	
	<hr/>	
Amounts carried forward	\$38,124 80	\$66,926 44

Amounts brought forward	\$38,124 80	\$66,926 44
R. D. Wood & Co., hydrant	1,811 11	
Norwood Engineering Co., hydrant	700 09	
Rensselaer Mfg. Co., hydrant	168 00	
Boston Lead Mfg. Co., pipe	4,291 48	
Lead Lined Iron Pipe Co., pipe	2,085 38	
U. S. Cast Iron Pipe & Foundry Co., pipe	5,762 37	
Richardson Co., lead	713 14	
Chadwick Lead Works, lead	49 36	
S. W. Fuller, lumber	290 74	
Parker & Page, lumber	4 24	
George W. Gale Lumber Co., lumber	23 55	
T. E. Littlefield, lumber	27 06	
Charles Booth, wood	73 00	
Frank A. Teele, wood	16 50	
National Meter Co., meter piston	1 50	
Hersey Mfg. Co., repairing meter	47 21	
Union Water Meter Co., repairing meter	4 25	
Neptune Meter Co., gaskets	1 22	
Crosby Steam Gage & Valve Co., gage tester	50 00	
Boston Steam Pump Repair & Supply Co., repairing pump	82 10	
James Russell Boiler Works Co., repair- ing standpipe	100 55	
Freeman C. Coffin, examining standpipe . .	150 75	
The Fairbanks Co., valve	21 36	
Chapman Valve Mfg. Co., valve	62 26	
Star Brass Mfg. Co., repairing gages . . .	10 10	
Pelton Water-Wheel Co., motor	45 00	
Coffin Valve Co., water gate	1,193 95	
Davis & Farnum Mfg. Co., castings . . .	1,490 84	
Builders' Iron Foundry, castings	953 42	
Osgood & Hart, castings	822 72	
Hall Brothers, castings	355 71	
A. P. Smith Mfg. Co., castings	103 40	
J. L. Mott Iron Works, castings	14 85	
Mechanics' Iron Foundry, grate bars . . .	28 84	
George H. Sampson, forcite	22 76	
Pettingill Andrews Co., electric supplies .	3 86	
W. T. Cleveland, electric work	18 00	
Charles F. Merrill, telephone	12 00	
George H. Richter & Co., cabinets	65 00	
F. W. Allen & Co., furniture	10 60	
Derby Desk Co., furniture	50 00	
Jackson Caldwell & Co., bedding	98 25	
Stevens Mfg. Co., polish	1 00	
New England Oil Co., oil	74 10	
Globe Gaslight Co., gasolene	23 10	
E. M. Dart Mfg. Co., stop cocks	41 99	
William Franklin Lowe, oil	37 20	
W. A. Morrison, packing	25 20	
Wellman Sole Cutting Machine Co., packing	59 20	
Sewall & Day Cordage Co., packing . . .	90 31	
A. W. Chesterton & Co., packing	8 40	
Thomas Groom & Co., stationery	194 70	
Amounts carried forward	\$60,516 52	\$66,926 44

Amounts brought forward . . .	\$60,516 52	\$66,926 44
F. S. Blanchard & Co., book . . .	3 00	
Engineering News, magazine . . .	5 00	
Municipal Engineering Co., magazine . . .	2 00	
"Fire and Water," magazine . . .	3 00	
Somerville Citizen Co., printing . . .	76 05	
Somerville Journal Co., printing . . .	76 35	
A. M. Darling, paper . . .	32 00	
Smith Premier Typewriter Co., paper . . .	3 35	
Frost & Adams Co., paper . . .	1 25	
E. J. Cambridge, stamps . . .	70 00	
T. S. Buck, stamps . . .	60	
Joshua Thaxter, leather casings . . .	8 50	
Henry C. Hunt Co., leather . . .	12 50	
T. Allen, concreting . . .	5 50	
M. A. Simpson, sand . . .	5 00	
Sprague & Hathaway Co., frames . . .	14 40	
Albert F. Hall, specifications . . .	155 00	
O. T. Gould, repairing clock . . .	4 50	
F. W. Farrar, repairing clock . . .	2 50	
William J. McCarthy, stone . . .	77 20	
McCarthy Brothers, charcoal . . .	1 20	
Edward Culliton, coal . . .	3 00	
Wellington-Wild Coal Co., fuel . . .	2,545 76	
Highland Coal Co., fuel . . .	94 69	
Somerville Electric Light Co., lighting . . .	342 42	
City of Somerville, water . . .	36 04	
F. M. Leman, signs . . .	44 50	
Thomas McNee, signs . . .	6 45	
J. F. Elkins, teaming . . .	311 21	
John P. Wahlstrom & Son, labor . . .	22 15	
Fitchburg Railroad Co., labor . . .	16 68	
F. D. Weld, labor . . .	50	
Woodman Knight, labor . . .	6 00	
Boston Elevated Railway Co., tickets . . .	30 00	
Boston & Maine Railroad, freight . . .	232 86	
J. W. Howard, labor . . .	66 70	
American Express Co., expressing . . .	3 90	
Fresh Pond Ice Co., ice . . .	68 62	
Cambridge Ice Co., ice . . .	24 70	
D. G. McKinnon, labor . . .	3 00	
New England Telephone & Telegraph Co., rentals and tolls . . .	333 39	
H. Wood, repairing tools . . .	6 10	
Peabody, Whitney Co., flag . . .	7 20	
William E. Daniels, mounting maps . . .	9 10	
William C. Walker, rubber boots . . .	3 00	
J. H. Brooks, flannel . . .	2 90	
Thomas A. Griffin, sawdust . . .	3 00	
John D. Taapken, oatmeal . . .	7 63	
Elias Lathrop, ointment . . .	4 00	
Thomas Hollis Co., anodyne . . .	2 00	
Milton H. Plummer & Co., horse medicine . . .	3 10	
W. H. Way, veterinary services . . .	11 00	
William H. Hitchings, veterinary services . . .	22 00	
John Cooper, horse . . .	105 00	
E. Teele & Co., pung . . .	55 00	
Amounts carried forward . . .	\$65,509 02	\$66,926 44

Amounts brought forward	\$65,509 02	\$66,926 44
Richard E. Mahoney, compensation for damages	275 00	
Ida M. and Harry B. Wiley, compensation for damages	550 00	
George F. McKenna, compensation for damages	25 00	
Mrs. M. E. Harmon, compensation for damages	42 00	
R. M. Sturtevant, compensation for damages	20 00	
Thomas F. St. George, compensation for damages	23 75	
Powder-house Boulevard, loam	13 50	
Engineering Department, map	246 23	
E. H. Tower, wood	6 75	
David P. Page, plugs and wedges	47 58	
Howe & Flint, hardware	17 99	
	<hr/>	
	\$66,776 82	
Excess and Deficiency, balance to credit of account	149 62	
	<hr/>	
		<u>\$66,926 44</u>

Water Services.

CREDIT.

Cash, received of Lillian M. Tibbetts, additional charge on service pipe	\$2 80
Water Service Assessinents, cost of services laid	4,293 15
	<hr/>
	\$4,295 95

DEBIT.

Cash, paid laborers	\$1,975 55
Harvey Taylor, abatement	2 00
Joseph F. Wilson, abatement	4 00
Water Maintenance Account, stock and labor	2,199 92
Balance transferred	114 48
	<hr/>
	<u>\$4,295 95</u>

Water Service Assessments.

CREDIT.

Cash, received of sundry persons, water services	\$4,293 15
--	------------

DEBIT.

Water Services, pipes laid in 1899	<u>\$4,293 15</u>
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Watering Streets Assessments.

CREDIT.

Cash, received of sundry persons	\$13 24
Balance to debit in account, 1900	2 88
	<hr/>
Amount carried forward	\$16 12

Amount brought forward \$16 12

DEBIT.

Balance from 1898 \$16 12

Watering Streets.

CREDIT.

Appropriations, amount assessed	\$3,500 00
Taxes, assessments levied	13,993 84
Cash, received of abutters	\$79 08
West End Street Railway Co., season of 1899	309 44
	<u>388 52</u>
	<u>\$17,882 36</u>

DEBIT.

Cash, paid N. C. Barker, overseeing	\$786 25
Richard T. Blackwell, watering	846 24
Frank Buttmer, watering	457 33
John Buttmer, watering	388 91
Cornelius R. Bowlby, watering	464 33
Silas D. Carter, watering	824 49
Mrs. T. F. Casey, watering	455 00
T. F. Crimmings, watering	391 25
John F. Elkins, watering	402 50
James H. Fannon, watering	433 25
Martin Gill, watering	824 49
T. A. Griffin, watering	391 25
John W. Lyons, watering	388 91
Henry McAvoy, watering	393 58
Henry J. McAvoy, watering	414 58
Philip McGovern, watering	448 50
A. M. Prescott, watering	509 00
John B. Rufer, watering	494 66
R. M. Sturtevant, watering	405 58
Thomas Tighe & Sons, watering	393 58
Benjamin Thomas, watering	497 00
Somerville Journal Co., advertising	6 00
Somerville Citizen Co., advertising	5 50
Thomas Groom & Co., book	12 25
G. W. Ryan, building shed	467 50
J. L. & H. K. Potter, repairing carts	1,170 52
Howe & Flint, repairing carts	1 60
John B. Rufer, repairing carts	3 50
I. B. Walker, repairing carts	45 85
The Hale & Mayhew Co., repairing carts	8 00
Seward Dodge, repairing carts	20 50
Kiley Brothers, repairing carts	2 00
L. A. Wright, repairing carts	21 15
T. E. Littlefield, repairing carts	1 19
Mabel Dadmun, clerical services	78 67
Charles S. Robertson, premium of insurance	40 00
Theodore H. Finke, grading	28 00
City of Somerville, water	5,305 04
Amounts carried forward	<u>\$17,827 95</u>
	<u>\$17,882 36</u>

Amounts brought forward	\$17,827 95	\$17,882 36
Excess and Deficiency, balance to credit of account	54 41	
	<hr/>	<hr/>
		\$17,882 36

Water Works Extension.

CREDIT.

Water Works Income, amount appropriated	\$20,000 00
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DEBIT.

Cash, paid laborers	\$12,048 23
Neptune Meter Co., meters	590 70
Thomson Meter Co., meters	54 00
Union Water Meter Co., meters	371 60
Charles Brant, mason work	5 00
W. A. Sanborn, bricks	32 00
J. A. Porter & Co., wood	2 00
Boston Woven Hose & Rubber Co., washers	1 00
Metropolitan Water Board, pipe	65 70
Boston & Maine Railroad, labor	23 88
S. W. Fuller, lumber	3 92
Coffin Valve Co., check valve	50 00
Dennis C. Mahoney, grant of right of way	50 00
Water Maintenance account, stock	6,541 50
Highways account, edgestones	139 06
	<hr/>
	\$19,978 59
Excess and Deficiency, balance to credit of account	21 41
	<hr/>
	\$20,000 00

Water Works, Abatements on Water Charges.

CREDIT.

Amount appropriated	\$6,000 00
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DEBIT.

Cash, paid sundry persons, money re-funded	\$119 18
Sewers Construction account, amount transferred	5,880 82
	<hr/>
	6,000 00

Water Works Income.

CREDIT.

Cash, received of sundry water takers	\$214,280 83
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DEBIT.

Sewers Construction account, amount appropriated	\$19,722 75
Water Maintenance account, amount appropriated	50,000 00
Water Loan Interest account, amount appropriated	10,882 50
	<hr/>
Amounts carried forward	\$80,605 25
	<hr/>
	\$214,280 83

Amounts brought forward	\$80,605 25	\$214,280 83
Reduction of Funded Debt, Water Loan Bonds, amount appropriated	32,500 00	
Reduction of Funded Debt, Sewer Loan Bonds, amount appropriated	8,000 00	
Interest, amount appropriated	6,700 00	
Water Works Extension, amount appropriated	20,000 00	
Water Works Abatements, amount appropriated	6,000 00	
Sewers Maintenance account, amount appropriated	8,500 00	
State of Massachusetts, Metropolitan Water Supply, amount appropriated	20,975 58	
Reduction of Funded Debt, Metropolitan Sewer Assessment, amount appropriated	31,000 00	
		<u>\$214,280 83</u>

TABLE D.—BALANCES DECEMBER 31, 1899.

Cash	\$71,312 12	
Public Property	2,895,243 14	
Real Estate Liens	2,740 09	
Reduction of Funded Debt	24,091 37	
Sewer Assessments	6,046 98	
Sidewalk Assessments	3,386 09	
Schoolhouse, Burns, Addition	180 87	
State of Massachusetts, Burial of Indigent Soldiers and Sailors	350 00	
State of Massachusetts, Indigent Soldiers and Sailors	231 50	
State of Massachusetts, State Aid	10,669 00	
Taxes	388,126 21	
Watering Streets Assessments	2 88	
Excess and Deficiency		\$36,991 52
Fire Department, Fire Station, Clarendon Hill		32 72
Fire Department, Fire Station No. 1		1,000 00
Funded Debt		1,492,500 00
Highways		29,471 71
Highways, Paving Davis Square		5,000 00
Highways, Paving Washington street, Tufts street to Boston line		217 28
Overplus on Tax Sales		1,668 13
Powder-house Boulevard		546 98
Property and Debt Balance		1,402,743 14
Public Library, Addition		6,058 03
Public Library, Isaac Pitman Fund		1,000 00
Reduction of Funded Debt, Metropolitan Sewer Assessment (from Water Works Income)		31,000 00
Schoolhouse, Forster, Improvement		14,396 04
Schoolhouse, Highland, Sanitary Improvement		21 36
Schoolhouse, Ward Two		1,362 59
Sewers Construction		32,973 90
Sundry Persons		29,396 10
Support of Poor, "City Home"		6,000 75
Temporary Loans		310,000 00
	<u>\$3,402,380 25</u>	<u>\$3,402,380 25</u>



ALBION A. PERRY SCHOOL.

REPORT OF THE SCHOOL COMMITTEE.

City of Somerville.

School Committee Rooms, January 10, 1900.

To the Board of Aldermen of Somerville:—

Gentlemen,—At a meeting of the Board of School Committee held December 28, 1899, it was

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that the same be referred to the Board of Aldermen, with a request to incorporate it in the annual reports; and that 1,000 copies be printed in separate form.

Respectfully,

G. A. SOUTHWORTH

Secretary of School Board.

SCHOOL COMMITTEE, 1899.

HON. GEORGE O. PROCTOR, Mayor, Chairman, ex-officio.

CHARLES A. GRIMMONS, President of the Common Council, Vice-Chairman, ex-officio.

Members.

		Term expires January.
WARD ONE.		
SANFORD HANSCOM,	1 Webster street.	1900
S. NEWTON CUTLER,	28 Flint street.	1901
GEORGE S. POOLE,	46 Mt. Vernon street.	1902
WARD TWO.		
JAMES F. BEARD,	17 Prospect-hill avenue.	1900
ALVAH B. DEARBORN,	34 Bow street.	1901
FRED W. GILBERT,	101 School street.	1902
WARD THREE.		
GEORGE W. W. WHITING,	282 Broadway.	1900
*FRANK H. HARDISON,	192 Central street.	1901
QUINCY E. DICKERMAN,	85 Central street.	1902
WARD FOUR.		
MARTIN W. CARR,	74 Craigie street.	1900
GEORGE A. MILES,	249 Elm street.	1901
HENRIETTA B. H. ATTWOOD,	18 Herbert street.	1902

The Board holds its regular meetings on the last Monday evening of each month at 8 o'clock.

Superintendent of Schools,

GORDON A. SOUTHWORTH.

Office: City Hall Annex, Highland avenue.

Residence: 40 Greenville street.

The Superintendent's office will be open from 8 to 12 and from 1.30 to 5; Saturdays, 8.30 to 10. His office hours are 4 to 5 on school days and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Eleanor L. Hannay, Superintendent's clerk.

*Mr. Hardison resigned September 25, and on October 11 William P. Jones was elected his successor in joint convention of School Board and City Council.



BURNS SCHOOL.

STANDING COMMITTEES, 1899.

English High School.—Carr, Hanscom, Dickerman, Poole, Gilbert.
Latin High School.—Beard, Dearborn, Cutler, *Hardison, Miles.
East Somerville District.—Cutler, Poole, Hanscom.
Prospect-hill District.—Beard, Dearborn, Gilbert.
Winter-hill District.—Hardison, Dickerman, Whiting, Grimmons.
Spring-hill District.—Carr, Miles, Mrs. Attwood, Proctor.
West Somerville District.—Miles, Carr, Mrs. Attwood.
Additional School Accommodations.—Proctor, Hanscom, Beard, Hardison.
Evening Schools.—Miles, Dickerman, Hanscom, Dearborn.
Finance.—Gilbert, Poole, Miles, Grimmons.
Industrial Education.—Dickerman, Carr, Cutler, Gilbert.
Music.—Whiting, Cutler, Gilbert, Mrs. Attwood.
Private Schools.—Mrs. Attwood, Whiting, Poole, Gilbert.
Repairs.—Dearborn, Whiting, Poole, Mrs. Attwood.
Rules and Regulations.—Cutler, Whiting, Miles, Beard.
Salaries.—Hanscom, Beard, Hardison, Carr.
Supplies.—Poole, Dickerman, Carr, Dearborn.
Text-books and Course of Study.—Hardison, Dearborn, Cutler, Beard, Miles, Dickerman, Hanscom, Mrs. Attwood.

*By vote of the School Board October 30, William P. Jones replaced Mr. Hardison on all standing committees.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the Board of School Committee:—

The twenty-eighth annual report of the Superintendent of Schools for the year 1899 is herewith respectfully submitted, the same being the seventh of the present incumbent of the office and the fifty-eighth of the school department of the municipality.

Fifty-eight years ago, in 1842, a thousand people occupying the farms and scattered dwellings of the northwesterly part of Charlestown became incorporated as the town of Somerville, with a million dollars' worth of assessed property. For thirty years the town prospered and grew with unexampled rapidity, until in 1872 both its people and its valuation had increased sixteen fold. Its sixteen thousand, with their sixteen millions, were then incorporated as a city under what will hereafter be known as its first charter. Under this charter, wisely administered, prosperity and growth have continued for twenty-eight years, until sixty thousand people, with fifty-one and a fifth millions of taxable property, have become its happy and contented residents.

With the opening of 1900 a new governmental era begins under a second charter that makes radical changes in administrative methods. From this point will hereafter date a third period of our municipal life, one, let us hope, equal to its predecessors in whatever makes for public peace, prosperity, and purity. As this report covers the last year of the old charter, and will doubtless be largely used for comparative purposes in the future, it will deal chiefly with facts, rather than with theories. Attention, therefore, is called at the outset to the following statement of school population and expenditures for the year:—

Summary of Statistics.

	1898.	1899.
Population of Somerville	57,500	60,000
Children attending school in December	11,091	11,582
Attending private schools in December	1,454	1,507
Attending public schools in December	9,637	10,075
Attending high schools in December	871	953
Attending grammar and primary schools in December	8,766	9,122
Entire enrollment for year	11,577	11,975
Average number belonging	9,085	9,502
Average number attending	8,636	8,965
Per cent. of daily attendance	95.1	94.3
Number of school buildings	25	24
Valuation of school property	\$1,023,441 00	\$1,069,604 00
Number of classrooms	203	220
Number of teachers in December	252	263

Salaries of teachers	\$184,543 71	\$192,959 90
Salaries of officers	4,700 00	4,700 00
Cost of books and supplies	14,985 59	16,131 20
Cost of water and light	2,074 94	2,472 18
Cost of janitors' services	17,392 60	17,830 61
Cost of fuel	9,766 83	10,821 02
Total cost of day and evening schools	233,463 67	244,914 91
Cost for each pupil in average membership	25 70	25 78
Cost for each high school pupil	56 34	58 13
Cost for each grammar and primary pupil	22 61	22 50
Amount paid for new school buildings	49,983 00	72,516 11
Cost of repairs and permanent improvements	21,273 82	15,636 95
Entire expenditures for all school purposes	304,722 00	333,068 00
Expended by School Board	204,229 30	213,791 20
Expended by City Government	100,492 70	119,276 80
Valuation of City	50,739,700 00	51,202,350 00
Per cent. of valuation spent to maintain schools . . . . .	.460	.478
Per cent. of valuation spent for all school purposes . . . . .	.601	.655

School Buildings. Somerville schools occupy at the present time twenty-four buildings, three of which are antiquated structures that should be replaced at an early day; three others are modern wooden buildings; and the remaining eighteen are substantially built of brick, commodious, well ventilated, and well adapted to educational purposes, with the exception that some of them are wretchedly lighted, as will be seen by reference to subsequent pages of this report. These twenty-four buildings are valued at \$1,069,604, and are located as follows:—

On Central hill the Latin and English High schools, with a capacity for 900 pupils.

In Ward 1 the Prescott, Hanscom, Davis, Bennett, and Jackson, with thirty schoolrooms.

In Ward 2 the Knapp and Perry, with eighteen rooms.

In Ward 3 the Pope, Prospect-hill, Bell, and Cummings, with thirty-four rooms.

In Ward 4 the Edgerly and Glines, with twenty-five rooms.

In Ward 5 the Forster and Bingham, with twenty-eight rooms.

In Ward 6 the Carr, Morse, Durell, and Burns, with thirty-nine rooms.

In Ward 7 the Highland, Hodgkins, and Lincoln, with twenty-eight rooms.

This shows two hundred and two rooms devoted to kindergarten, primary, and grammar schools, with a seating capacity for 9,900 pupils, provided they were equally distributed over the city. In 1871 there were fifty-eight rooms—two-sevenths of the present number.

During the year our school accommodations have been increased by the construction of a six-room building on Washington street, near Dane, and by a four-room enlargement of the Burns School on Cherry street. The former building was begun

in September, 1898, but was not ready for occupancy until the second week of the school year in September, 1899. The cost of the plant is as follows:—

Land, 46,080 square feet	\$9,357 53
Building complete	28,254 63
Total cost	<hr/> \$37,612 16

The building is well located, thoroughly constructed, and admirably adapted to school purposes, being fully up to date in whatever pertains to the health and convenience of its occupants.

The following description of the building has been kindly furnished by the architects, Prescott & Sidebottom, of Boston, and an elevation and plans will be found elsewhere in this report:—

The Albion A. Perry six-room school building, Washington street, Somerville, was built by John A. Dodge, general contractor, Cambridge, and the heating and ventilating were installed by Isaac Coffin & Co., of Boston, both of whom gave excellent satisfaction.

The building was turned over to the city for use at the beginning of the September term of 1899. It covers about 6,500 square feet; foundations of large ledge stones, with granite grade course and cut granite steps at entrances. The exterior is of Eastern water-struck brick laid in white mortar, with white terra cotta trimmings. The porches are of brick, with tile floors. The roof is covered with best Monson slate, with copper trimmings, gutters, and conductors.

The building is so arranged that an addition of six rooms may be made when future needs warrant it, making a completed twelve-room building, with the least possible extra expense in cutting and connecting the two portions, and making a satisfactory architectural effect.

The basement contains a finished wardroom, 28x31, boys' and girls' playrooms and sanitaries, boiler room equipped with double boilers, with ample coal room connected, and the necessary heating and ventilating chambers. The entire basement ceiling is plastered, that in the boiler and coal rooms being on metal lathing.

The first floor is divided into three classrooms, 28x32 each, equipped with best slatestone blackboards, three coat rooms, with rubber boxes, and hooks for fifty scholars, connecting corridor eleven feet wide, with a wide porch at each end. The stairways are at each end, and the rooms so connected that ample facility is provided for exit in two directions from each room.

The second floor is laid out in the same manner as the first.

The stairways, corridors, classrooms, and coatrooms are all amply lighted and ventilated. The teachers' rooms, with independent toilet connected, are located on the stair landings, half way between first and second floors, which seems to give much

satisfaction, and the space above is used for a storeroom for school supplies. Each classroom has a teacher's closet, with book shelves and hooks. Each corridor and playroom has a slatestone sink, with two faucets to each.

All floor timbers are of Southern pine. The inside finish is of brown ash, with ash veneered doors, and floors throughout are of rift Georgia pine. Double runs of sash are used on the north side of the building. The building is piped throughout for gas, and fixtures connected in the necessary places. All dadoes were done in hard plaster, and painted, and the walls above and ceilings were tinted. The plumbing is of the most approved modern type, thoroughly ventilated. Indirect steam is used to supply all classrooms, direct radiators being used elsewhere, and all this, with the ventilation, up to the standard of the state requirements.

On the thirtieth of January the School Board voted to request the City Council to give to the new school the name of an honored citizen who had rendered valuable services to the city in various capacities. The council unanimously acceded to this request, and named the new institution the "Albion A. Perry School."

Albion A. Perry was born in Standish, Me., January 26, 1851, the son of Rev. John C. and Mary E. (Boston) Perry. He was educated in the public schools and at Monmouth Academy. He came to Somerville in 1869, and for several years carried on the drug business with marked success. He fitted himself for the profession of pharmacist at the Massachusetts College of Pharmacy. After retiring from the drug business, he took up the study of law at the Boston University School of Law, and later opened an office in Somerville. In 1886 he associated himself with S. Z. Bowman, and the partnership has continued to the present time. Mr. Perry has served the city in several different capacities. He was elected to the School Board, but served only one year, 1876, resigning on account of his business, which demanded his time. He was a member of the Common Council in 1881 and 1882, being president the second term. In 1883-1884 he was in the Board of Aldermen. He was appointed on the Water Board by Mayor Pope in 1891 for two years, and was president of the Board both years. At the end of his term he was urged strongly by Mayor Hodgkins to accept reappointment. In 1895 he was elected to the office of mayor, after one of the warmest political contests ever held in this state, was re-elected in 1896 and 1897, and filled the office with an ability that commanded the respect of every one.

Mr. Perry was elected president of the Somerville Savings Bank after the death of Oren S. Knapp in 1891, a position he still holds, and he has shown his qualifications as a financier by building up a strong institution, the business of the Bank during the five years that he has held the office having had a tremendous growth; he is also a director in the Somerville National Bank. Mr. Perry has ever shown the liveliest interest in all matters relating to the welfare of Somerville, and has discharged the duties of every office to which he has been called with the utmost fidelity and conscientiousness. Mr. Perry married Mary E., daughter of John W. and Hannah W. Brooks, of this city.

The addition of four rooms to the Burns School was begun the last of May, but, unfortunately, it was not completed until the first of October. The building now contains eight rooms, well adapted to school purposes. The enlargement includes

toilet rooms independent of the main building, but easily accessible therefrom without the use of stairways. In the second story of this addition a storeroom and a teachers' room and toilet are provided. The entire cost of the enlargement, including the heating of the entire building, was \$19,680.87, the cost of the original building being \$15,250.

A long-needed improvement in the sanitation of the Highland School, which for several years had been urgently brought before the appropriate committee of the City Council, was effected during the summer vacation. A two-story structure was erected on the southerly side of the building, containing ample toilet rooms for boys and girls on the lower floor, and on the second floor a toilet room for girls, a teachers' room, a storeroom, and an office for the principal. These rooms may all be reached by covered passages from the first and second floor-levels of the main building. They are furnished with the most modern appliances, and will prove not only a great convenience, but will also exert a salutary influence in the promotion of good morals. The cost of the improvement was \$6,463.65.

In July last an addition of 3,000 square feet was made to the southeasterly corner of the Forster School lot, and the construction thereon of a six-room building designed for primary schools was begun. The building will not be ready for use until the first of February. Pending its completion, eight classes of the Forster school have been placed on four-hour time, a loss which might have been avoided by beginning the work at an earlier day.

The good work of renovating some of our older buildings, begun last year at the Forster, has been continued this year at the Prescott. New floors have been laid throughout, walls tinted, ceilings whitened, woodwork redressed, blinds replaced by shades, partitions removed on the third floor to provide new dressing rooms, a teachers' room, and an office for the principal. The new heating and ventilating apparatus has been got into satisfactory working order. All this agreeable metamorphosis has been brought about at an expense of about \$2,000, and adds greatly to the convenience and comfort of both teachers and pupils. Nothing now remains to be done but to light the building sufficiently.

The year has been memorable for the abandonment of three old school buildings connected with our earliest school history, the Cedar-street, the Harvard, and the Franklin schoolhouses. The first-named was a composite structure that included the first school building erected within our corporate limits in 1842, which was removed from its original site on Broadway, at the head of Irving street, in 1868. The Harvard building was erected in 1851 on Cherry street, and bore the name of the Luther V. Bell School. In 1867 it was moved to the Franklin lot, where it remained for four years, when it was moved again to Beacon street, to replace an old house just destroyed by fire. The building has now re-

ceived its third and final removal, and has been changed into a dwelling house.

The Franklin building, after doing service for more than half a century, has been in disuse since the completion of the Carr. In March last the School Board requested the City Council to fit up this building for a manual training and cooking school. The request was absolutely ignored, and, without explanation or conference, the building was sold and demolished, and the lot converted into a much-needed playground. This incident shows how utterly dependent the School Committee is upon the City Government in securing what it may deem requisite accommodations for the schools. A body upon which the state has placed the responsibility of managing the educational interests of the city should be given some authoritative voice in the location, construction, and control of school buildings. It is hoped that it is not too late to secure this in the reorganization of the government under the new charter.

Pupils. There are now (December, 1899) 11,582 children at school in the city, an increase of 491 within the year; 1,507 of these attend private schools, and the remaining 10,075 are being educated at public expense. It is interesting to note that, during the period covered by the first charter, the ability of the city to educate its children has not increased as rapidly as the number of children to be educated. Our valuation has grown but 225 per cent. as compared with a gain of 300 per cent. in our school population. Some compensation for this disproportion, however, is found in the fact that, for several years, the private schools have saved the city an annual outlay of about \$50,000, including interest on the investment that would otherwise have been necessary.

Our high school membership has doubled within ten years, being now 953—254 of whom are in the Latin School and 699 in the English School.

The membership of the elementary schools is 9,122, distributed among the grades as follows:—

Kindergartens	249	Grade V.....	1,024
Grade I.....	1,607	Grade VI.....	860
Grade II.....	1,303	Grade VII.....	732
Grade III.....	1,143	Grade VIII.....	610
Grade IV.....	1,141	Grade IX.....	453

These are divided among two hundred schoolrooms, giving 45.6 pupils to a teacher.

The average membership of all the schools for the year was 9,502—94.3 per cent. of whom, or 8,965, were present at every one of the 370 sessions of the schools. There were seven and one-half tardinesses and four and one-half dismissals out of every ten thousand opportunities.

Teachers. There are in the employ of the city at the present time 263 teachers, twenty-two of whom are men. There are

eleven men and twenty-six women in the high schools, ten men and 199 women in primary and grammar schools, ten women in the kindergartens, and two men and five women as special instructors or supervisors. During the year fourteen teachers have resigned their positions—two men and twelve women. Of these, six were drawn away by the offer of larger salaries elsewhere, three were compelled to relinquish teaching on account of ill health, and the remaining five left us because "it is not good that the man should be alone."

Among the losses that we have sustained, it will not be invidious to mention that of Winfred C. Akers, the master, and Merle S. Getchell, first sub-master, in the English High School. Mr. Akers had rendered us efficient service for three years, and is now filling the important position of head master of the Holyoke High School. Mr. Getchell was connected with the school from its organization, and as head of the history department had done much to strengthen the school. In September he began his duties as principal of the high school in Hyde Park.

John A. Avery received a prompt and merited promotion to the vacant mastership, and Fred O. Small, of Machias, Me. (Bowdoin, 1895), and William I. Corthell, of Leominster (Williams, 1893, Harvard, 1894), were selected from among many applicants to fill the vacant sub-masterships.

The increase of 100 pupils in the English High School made necessary the employment of four additional teachers. Harriet E. Tuell (Wellesley, 1891, Cornell, 1894), was called from the Fall River High School to take charge of the department of history. Hila H. Small (Boston University, 1896) was released by the Fitchburg High School, and was engaged as teacher of English. Bertha P. Marvel (Boston University, 1896), of the Murdock School, Winchendon, was chosen as teacher of French. Bessie L. Forbes, a graduate of the school, was appointed assistant in the department of stenography.

Besides these five teachers, thirty-one others have been engaged during the year to fill vacancies or for new schools, making a total of thirty-six new teachers, one-third of whom were residents of Somerville.

Expenditures. The cost of maintaining the schools for 1899 was \$244,914.91. This is exclusive of what has been spent for new buildings and for permanent repairs, and includes the cost of teaching, supervision, the care and heating of schoolhouses, and supplies. Each dollar of this sum has been spent for these purposes in the following proportion:—

Teachers' Salaries.....	\$0.788
Supervision	0.019
Janitors' Salaries.....	0.073
Heat and Light.....	0.054
School Supplies.....	0.066
Total	\$1.000

The following table shows the per capita expenditures for the year:—

Per Capita Cost of Maintaining Schools, 1898 and 1899.

AMOUNT PAID FOR	High Schools.			Grammar and Primary Schools.			All Schools.		
	1898.	1899.	In-crease.	1898.	1899.	De-crease.	1898.	1899.	In-crease.
Instruction and Supervision . . .	\$45 51	\$46 73	\$1 22	\$18 34	\$18 18	\$0 16	\$20 83	\$20 80	*\$0 03
Text-Books and Supplies . . .	4 44	5 76	1 32	1 37	1 29	0 08	1 65	1 70	0 05
Schoolhouse Expenses . . .	6 39	5 64	*0 75	2 90	3 03	†0 13	3 22	3 28	0 06
Totals	\$56 34	\$58 13	\$1 79	\$22 61	\$22 50	\$0 11	\$25 70	\$25 78	\$0 08

* Decrease.

† Increase.

It will be observed that there has been an increase of eight cents in the general per capita cost. The cost of instruction has decreased three cents, but the cost of supplies and that of schoolhouse expenses have increased five and six cents, respectively. The increase of five cents in the cost of supplies is due to the necessity of equipping 100 new pupils in the English High School with a complete set of books, and also to the furnishing of new books for the 300 pupils in the Perry School. The extra cost of six cents for schoolhouse expenses is owing to the fact that more has been paid for janitors and for coal and water than in the previous year.

Modern appliances for schoolhouse heating and sanitation are naturally more expensive than those less effective.

The following schedule shows the salaries that are paid to teachers at the present time:—

2 men	\$3,000	1 woman	\$750
1 man	2,000	3 women	725
9 men, 2 women	1,900	1 woman	700
1 man	1,800	16 women	675
2 men	1,700	3 women	650
1 man	1,500	171 women	600
2 men	1,400	6 women	500
3 men	1,300	5 women	425
1 man, 3 women	1,200	1 woman	400
1 man, 4 women	1,000	1 woman	360
18 women	900	1 woman	350
2 women	850	1 woman	200
1 woman	800		

Making the total salary list at present \$196,210.

In addition, there are employed during the evening school term one teacher at \$5 an evening, two at \$4, six at \$3, seven at \$1.50, and from seven to twelve at \$1 each, a total of about \$3,500.

Increased Accommodations. For the English High School. The pressing need of the enlargement of the English High School building was presented to the School Board a year ago. That body laid the necessities of the case before the City Government in January, and reiterated the facts in September, but all to no avail. The predictions made in December were more than fulfilled at the opening of the schools in September, when 725 students thronged a building whose actual capacity is but 600. This condition had become assured at the end of the school year in June. As a last resort, the seats at either end of the lecture hall were replaced by desks, curtains dividing the room into three so-called apartments. Here the additional 125 pupils were seated. This derangement makes but a poor substitute for classrooms, as the curtains furnish little or no obstruction to the passage of sound. In addition to the coat rooms heretofore pressed into service for recitation purposes, two others were taken at the ends of the middle corridor. In this very unsatisfactory way a temporary provision for the present numbers has been made. The capacity of a school building cannot be measured by the number of children that can be crowded into it by utilizing every nook and corner. A more correct measure is the number of teachers that can be provided with suitable classrooms, laboratories, and recitation rooms for the convenient and healthful accommodation and instruction of the twenty-five pupils that should be assigned to each. Judged by this standard, the English High School is deplorably overcrowded. If such is the present condition, how shall we fittingly picture the state of affairs in September, 1900? At that time at least 750 students will seek and demand the privileges and opportunities which the school was established to provide. It will be a physical impossibility to accommodate them under existing conditions. If immediate action should be taken by the City Government, it would be impossible seasonably to complete any enlargement that might be undertaken. Do the best we can, the efficiency of the school will be jeopardized, if not materially lessened. Unless we are ready to sacrifice the interests of the school, the value of which to the community is unquestioned, some plan for providing increased accommodations should be adopted at once and executed with all possible despatch.

The plan that was suggested and discussed last year seems, upon further consideration, the easiest of execution and, at the same time, the most economical. The extension should double the capacity of the present building and make provision for future growth. It must provide at least ten classrooms, six large recitation rooms, another science laboratory, four rooms for manual training, one or two rooms for domestic science, a larger library, and other accommodations needed for a thousand students. Besides this, it is possible, at a comparatively little expense, to provide a centrally located hall that will seat 1,500, and that will

supply a room in which the entire school may assemble, and in which large public gatherings may be held. All this involves large expenditure, but no one can visit new high schoolhouses in Cambridge, Malden, Fitchburg, Springfield, and Holyoke without realizing how meagre and inadequate our accommodations are for a large school. The growth of our city, the demand for high school education, the welfare of our youth, all these compel increased facilities, which we are sure will not be grudgingly given by the generous and public-spirited tax-payers of a city in which education is held in such high esteem.

In Ward 2. It was expected that the opening of the Perry School would not only relieve the congestion at the Knapp, but render it possible to dispense with the use of the wardroom in that building, which is entirely unfit for school purposes, being poorly lighted and heated, and wholly unventilated. The Perry School, however, was easily filled to repletion by contributions from the Carr, Durell, and private schools, as well as from the Knapp, without accomplishing the relief of the last named. The wardroom is still in use, and several of the rooms are crowded. The district is growing rapidly, and more room should at once be furnished. The Perry and Prospect-hill schools will furnish annually forty-five or fifty pupils for the Knapp. A little reflection will show that no twelve-room building can receive a fifth class annually from an outside feeder without very soon overflowing. Ten rooms are needed to accommodate the nine grades, the first grade usually filling two rooms. If a fifth-grade class enters each year, in five years five additional rooms will be needed, and so any building that is fed from without, as well as from within, should contain at least fifteen rooms. This has been repeatedly exemplified in different portions of the city. There must, then, be a plethora of pupils sooner or later in all our large buildings, unless they are either increased in capacity or provision is made for the removal of primary classes from them. The Carr School, for example, contains fifteen rooms, and can receive a class yearly from the Durell without crowding. To relieve the situation in this ward, it is recommended that another addition of four rooms be made to the Knapp School. There is ample room at the front of the building, and such an enlargement may be at a minimum of expense. At the same time, a much-needed improvement should be made in the removal of the present inadequate heating and sanitary arrangements and their replacement by more modern apparatus.

If this addition should fortunately be completed in September, 1900, three of its rooms would then be occupied. If, without much expense, an assembly hall could be furnished in the third story, it would be of great advantage to the school and a public convenience to the district.

In Ward 7. Practically identical conditions exist in this ward. It was necessary to close the kindergarten in the Hodg-

kins School in September to make room for a fifth class from the Lincoln. Another fifth, and possibly a fourth, class must be transferred thither in September next. There will be no room for them, however, the graduating class being replaced by the fifty children that enter the first grade. No section of our city bids fair to grow more rapidly for the next few years than that which naturally feeds the Lincoln and Hodgkins schools. This growth will be promoted by the proposed new boulevard and the extension of trolley lines. It is therefore recommended that a six-room building be erected on Simpson avenue, just beyond the Hodgkins School. This will receive the primary children of the district, and leave the present building to be devoted exclusively to grammar grades. This substantially repeats the conditions that will prevail at the Forster when its annex is completed. The erection of a building in any other part of the district would not answer, for the removal of primary classes from the Hodgkins to make room for the graduates from the Lincoln is a necessity.

For reasons already stated, the Highland School cannot receive classes from the Burns until provision is made elsewhere for the primary classes now in the former. Plans should be early made for a six-room building located sufficiently near the Highland School to accomplish this desired result. If this building should be placed near the corner of Willow and Frederick avenues, it would fulfill the recommendation made two years ago.

The residents in the extreme northerly part of ward 5, in the vicinity of Meacham street, are very poorly accommodated as to schools. The primary children have too long a walk to reach the Glines School, which they now attend, or even the Forster. At no distant day a four-room building should be located in this vicinity.

In connection with increased accommodations for primary and grammar schools, what has been said in previous reports concerning new grammar school centres should be borne in mind. It is wholly needless to entail unnecessary expense upon the city in this way. The reasons are fully given on page 29 of the report of 1898.

Defective Lighting. In the last two or three reports attention has been called to the increasing weakness and defects in vision in school children without making much impression. The subject is so important, however, that we again recur to it. No expert examination of the eyes of pupils has ever been made in our city, but tests have been repeatedly made in other cities, and always with results that occasion surprise. Not only is the number of children with defective sight unexpectedly large, but, in repeated instances, both parents and teachers have been surprised to find unsuspected cases of optical weakness of one sort or another. Defective vision is more common in the higher grades. There can be no doubt that it is aggravated, if not caused, by pernicious school conditions and requirements. One prolific source

of injury is insufficiency of light. Great care is taken in the lighting of modern schoolhouses. Light is admitted behind and at the left of pupils. Front lights and cross lights are carefully avoided, and, above all, light is abundant. In general, experts demand that the lighting surface shall be from one-fifth to one-sixth of the floor surface. It should never fall below fifteen per cent. The following table shows the ratio of floor surface to window surface in Somerville schoolhouses. It will be noticed that the newer buildings have fifteen per cent. or more of lighting surface. But the object of printing the table is to show how conspicuously defective is the lighting of several of the older buildings. Special notice should be taken of the last six buildings in the list, notably of the Bell, Prescott, and Forster. In these buildings the lighting surface is half of what it should be, and averages but little over one-tenth of the floor surface. It often happens in these schools that classes, particularly on the lower floor, are compelled to suspend eye-work altogether, and even in the sunniest days in some rooms the light is inadequate. It is possible to increase the light in these houses fifty per cent., at least. The expense and trouble will be considerable, but certainly the end justifies the means.

Teachers cannot be too careful in the management of window shades to see that all possible light is secured. They should remember that light from the top of the window is most valuable, because it reaches the farther side of the room.

Ratio of Floor Surface to Lighting Surface.

Lincoln.....	0.250	
Hanscom	0.234	
Carr.....	0.205	
Davis.....	0.194	
Perry.....	0.192	
Pope.....	0.191	4 rooms 0.157 — 32 feet from window to outside row.
English High	0.182	4 middle rooms 0.134.
Cummings...	0.174	
Knapp.....	0.172	1 room 0.10.
Durell.....	0.166	
Morse.....	0.162	4 rooms 0.083.
Latin High..	0.159	4 rooms 0.106 — main rooms.
Hodgkins....	0.155	4 rooms 0.125. 8 rooms 0.169.
Glines.....	0.147	2 rooms 0.117. Wardroom 0.08.
Jackson.....	0.136	
Highland....	0.130	
Burns.....	0.125	Old rooms 0.113. New 0.138.
Edgerly.....	0.116	
Bingham....	0.110	
Prescott	0.106	
Bell.....	0.103	
Bennett.....	0.104	
Prospect Hill	0.103	
Forster.....	0.095	

Time Lost. The year whose history we are recording has been free from dissensions, sensationalism, epidemics, and other conditions that tend to interfere with progress and the attainment of the best results. The schools have kept on 185 days, or 925 hours, ten and one-half per cent. of the entire year. And yet there are some who feel that children spend too much time in school, and advocate the further curtailment of their privileges. There have been eight sessions lost through the severity of the weather, ten by legal holidays, and twelve sessions have been taken from the theoretical forty weeks to lengthen the vacations.

The month of June was practically lost to the Bell School by what proved to be a needless panic regarding scarlet fever. The Perry School lost the opening week because the building was not ready. Exasperating and seemingly avoidable delays in completing the Burns enlargement cost that school the entire month of September. As before remarked, eight classes in the Forster have been on four-hour time for four months of the year. Nine classes in various parts of the city have each lost three days that their rooms might be used for election purposes. Teachers thus forced to be idle have been paid \$1,600, an unproductive expenditure of money that might have been avoided. It is to be regretted that the use of schoolrooms as voting booths still seems to be heedful. To be sure, the schools are now using three ward-rooms which they would delight to relinquish for something better, and it is quite certain that if schoolrooms were not available for voting purposes, more suitable places would readily be found.

The Latin School. No school holds higher rank or a warmer place in the esteem of our citizens. It does a definite and specific work most effectively. The rigid examinations which its graduates pass and their subsequent careers show that, as a fitting school, it does not fall below the high standard set up by Harvard University.

With a membership of 264, it graduated fifty-one, seventy-four per cent. of the sixty-nine that formed the class at the beginning of its four years of membership. Of these graduates, thirty have entered college.

It is interesting to note that this is relatively to population a much larger number than neighboring cities sent to college at the same time.

Two questions have been very properly raised: (1) Whether by transfer of pupils, or in some other way, this school may not be utilized to relieve the pressure upon the English School; and (2) whether there may not be some enlargement in its courses or modification of its work that will result to the advantage of its pupils and attract larger numbers.

In the discussion of these questions it must be borne in mind that, for many years before the high school was divided, its chief and most important work was the preparation of students for college. To this all other courses were subordinated. When the

school was divided it was understood that the Latin School should be distinctly a preparatory or fitting school, designed for college-bound pupils and others who might for any reason prefer a so-called classical education. All other courses were relegated to the English School. Again, it must be remembered that the capacity of the school is measured by the number of teachers that may work simultaneously and effectively in the building, and not by the number of pupils that may be crowded into its rooms and corridors. Under the present arrangement of the building, only eleven teachers can thus work, there being but eleven rooms that can be used for recitation purposes. The present class-unit in the school is twenty-eight pupils. In Cambridge it is twenty-one. The standard is twenty-five to a teacher. On this basis the pupil capacity of the building is 275. If it were called 300 on the basis of the existing class-unit, the school would accommodate fifty more than its present number.

As to the transfer of pupils, all those who are taking college courses, whether regular or alternative, should attend the Latin School, notwithstanding the tendency to open college doors to graduates of English schools.

Concerning the transfer of students fitting for the Institute of Technology or other scientific schools, it may be said, first, that their present number is too large to be accommodated in the Latin School; and secondly, that it is essential that these students take the course in manual training, mechanical drawing, and chemistry, work possible only in the English building. As to the transfer of those preparing for normal schools, aside from the fact that they cannot all be accommodated in the Latin School, it should be noted that eight of the thirteen subjects required for admission to those schools are provided for only in the English School. While one or two students enter normal schools each year from the Latin School with distinctively college preparation, there is a very decided preference on the part of normal school authorities that those who seek admission should have specific preparation for these schools with their future work as teachers definitely in mind.

If the English School were not overburdened with its own numbers, and if the question of divided responsibility and authority could be adjusted, some Latin pupils might pursue certain kinds of work with English classes. Under existing conditions, however, this can be done only to a very limited extent.

Concerning the extension of courses in the Latin School and the enlargement of its work, the following considerations should have due weight. There is no reason why the pupils of this school should not receive optional instruction in certain subjects that do not require previous preparation, such as drawing, elocution, ethics, physiology, physical training, etc. The difficulty in the way is that the great majority of them have no time to spend in this direction. To fit for college in four years requires good

health, close application, and hard study. At the present time an average of eighteen and a quarter periods out of a possible twenty-five are taken by each pupil in recitations that require thorough previous preparation. In Cambridge the average is about sixteen periods per week. Adding one period spent in music, only six periods remain to be devoted either to study or to the extra unprepared work suggested above. Now it takes the average pupil as long to prepare a lesson as to recite it. Many require more time. This means four or five hours of study. Whatever is subtracted for unprepared work from the limited time afforded in school must be made up by study at home. It is doubtful whether more than a very few students either can give or ought to give additional time to school duties. Rest, recreation, health, and home cares have claims that cannot be ignored.

This brings us to the consideration of the question whether the course in the Latin School may not wisely be extended to cover five years instead of four. Undoubtedly the physical and mental strain of preparing for college in four years is severely, if not injuriously, felt, and deters many students from undertaking it who would and could accomplish the task in five years. Education is not simply the acquisition of facts; it is growth, development, power. It is a process of digestion and assimilation. In all these time is an essential factor. Will it not be better to begin the work of college preparation a little earlier, or continue it a little longer, and thus gain time to accompany it by the consideration of additional subjects that contribute to culture and to health?

In this connection the experience of one of our neighbors, whose educational conditions are much like our own, may be profitable. In the Cambridge Latin School the college preparatory course covers five years, but one student out of every fifteen completing it in four years. Very few students are admitted from the eighth grade, although the work of the last four years of the grammar school course is completed by many in a shorter time. There is less of the forcing process, sixteen periods per week being the average recitation requirement of each pupil. Time is afforded for optional or unprepared subjects, and greater consideration is shown for the hygienic welfare of the pupils during a very important period of their lives.

The addition of a fifth year to our Latin School course would mean an increase of fifty pupils and two teachers. It would make it possible to spend time on the optional subjects already named. Pupils could be admitted from the eighth grade, or the last two years of the grammar school could be somewhat modified in the interest of college-bound students. Relief from possible undue pressure would be assured, time would be gained within school hours for work that now requires each Friday afternoon of two teachers and an entire college class. There would result distinct

gain in the scope and efficiency of the school. The whole question is one that may well receive the early consideration of the board.

The English High School. Notwithstanding its crowded condition, which has previously been described, this school continues to maintain its high standard of excellence. Although it has lost two of its strongest teachers, the enthusiasm, esprit de corps, and efficiency of its instructors remain unchanged. The six new members of its faculty have entered heartily and successfully upon their work. Its students are interested and loyal, and there is no diminution of effort in any quarter to merit the confidence and support hitherto accorded.

The school now contains 700 pupils and twenty-eight teachers, an average of twenty-five pupils to a teacher. When the school was established in September, 1895, the entering class numbered 192. Twenty-two per cent. fell out the first year, fifteen per cent. the second, twelve per cent. the third, and six per cent. the last year, leaving eighty-six to graduate in June last, forty-five per cent. of the original number. Of this number, fifteen have entered technical schools.

The following shows the number of students in each department:—

English	700	German	72
History	561	Drawing	414
Mathematics	531	Manual Training	127
Science	316	Commercial	123
Latin	149	Stenography	154
French	264	Elocution	700

There is a general recognition throughout the country of the claims of commercial life to a training as broad and complete as that given to those who are to engage in professional or scientific pursuits.

The business world is demanding from our schools young men and women with something more than a mere technical knowledge of bookkeeping or stenography. The qualities required are, first of all, integrity, fidelity, industry, high purpose, thrift, and afterwards intelligence, a broader knowledge, good judgment, alertness of intellect, the ability to comprehend quickly and execute promptly. To secure these essentials, at least a four years' course of high school training is requisite and a college course desirable.

To this end, high schools everywhere are establishing or strengthening their business courses, independent commercial high schools are being opened, and even college authorities are advocating commercial departments in their institutions that shall cover every phase of public and private business life in the broadest way.

The business course in the English High School covers four years. The aim is to develop the moral qualities, without which

life in business or anywhere else is a failure; to extend and strengthen the foundation of a good English education; to broaden knowledge and stimulate intellectual activity; and to give technical skill in the forms, usages, and laws of mercantile and business life.

Were it not for time limitations, the technical work might be extended. The suggestion that the study of Spanish might be introduced is not favored. Our new possessions are rapidly being Americanized, and English will very soon be everywhere the language of trade.

The growth and success of the English School may be largely attributed to the introduction into its curriculum of studies that have not only an educational and culture value, but are also closely connected with the probable future lifework of its students. The manifest trend of education is in the direction of training that shall fit for some definite calling. We question in vain the propriety of doing this at public expense. The demand is imperative, and must be met. So long as our public high schools shall so well meet the needs of their patrons and so wisely train their pupils for the labors and responsibilities of life, just so long will our citizens contribute generously and gratefully to their support.

Table Showing Losses of Classes in English High School Each Year Since Its Organization.

MEMBERSHIP.		Class of 1899.	Class of 1900.	Class of 1901.	Class of 1902.	Class of 1903.
Decrease.	1st year . . .	192	228	211	217	299
	2nd " . . .	149	163	153	162	...
	3rd " . . .	121	119	125	...	...
	4th " . . .	98	97	...	...	...
Graduates		86	...	...	...	...
Loss per cent.	1st year . . .	22.4	24.1	27.5	25.3	...
	2nd " . . .	18.7	27.0	18.0	...	...
	3rd " . . .	19.0	18.5	...	...	...
	4th " . . .	12.2	...	...	...	...
Total		55.2	...	...	...	...

Grammar Schools. In June last 468 pupils were graduated from our eleven grammar schools, 345 of whom, or seventy-four per cent., entered the high schools,—286 the English and 59 the Latin. The gradual decrease in the number of the class from 1894, when it constituted the fourth grade, down to the time of graduation, is shown below:—

		Loss.	Loss Per Cent.
In Fourth Grade	821		
In Fifth Grade	757	64	7.8
In Sixth Grade	684	73	9.6
In Seventh Grade	553	131	18.3
In Eighth Grade	495	58	10.5
At Graduation	468	27	5.5

This shows the number of the class that were either left behind to repeat the work or dropped out of school. The greatest apparent loss was between the seventh and eighth grades, the time when many scholars pass beyond the compulsory school age and go to work.

We occasionally hear expressions of regret that there should be such great variety of studies in the grammar schools. These regrets are based on misinformation. Somerville has been much more conservative than many of her neighbors in the introduction of what some are pleased to call educational fads or frills. Drawing and music may be more strongly emphasized now than they were twenty years ago, but they are given no more school time. Sewing and nature study are the only new features introduced into the curriculum of the elementary schools during the last twenty-five years, if we except the fact that rather more attention is given to physical training than formerly. Sewing, which commends itself for its practical utility to even the most rigid economist, requires from the girls but two hours out of every hundred in the course. Nature study is given eighty minutes each week,—about one-twentieth of the time. During this time the teacher gives such instruction in temperance physiology and hygiene as the law requires. The remainder is devoted to nature study. What is nature study? Let others answer.

It is seeing the things which one looks at, and the drawing of proper conclusions from what one sees. Nature study is not the study of a science, as of botany, entomology, geology, and the like. That is, it takes the things at hand and endeavors to understand them, without reference to the systematic order or relationships of the objects. It is wholly informal and unsystematic, the same as the objects are which one sees. It is entirely divorced from definitions or from explanations in books. It is therefore supremely natural. It simply trains the eye and the mind to see and to comprehend the common things of life; and the result is not directly the acquirement of science, but the establishment of a living sympathy with everything that is.

The proper objects of nature study are the things which one oftenest meets. To-day it is a stone, to-morrow it is a twig, a bird, an insect, a leaf, a flower. The child, or even the high school pupil, is first interested in things which do not need to be analyzed or changed into unusual forms or problems. Therefore, problems of chemistry and of physics are, for the most part, unsuited to early lessons in nature study. Moving things, as birds, insects, and mammals, interest children most, and therefore seem to be the proper subjects for nature study; but it is often difficult to secure specimens when wanted, especially in liberal quantity, and

still more difficult to see the objects in perfectly natural conditions. Plants are more easily had, and are therefore more practicable for the purpose, although animals and minerals should by no means be excluded.

L. H. BAILEY,

Cornell University.

Nature is a theme on which the child may try his tools,—it gives him something to talk, write, read, or think about; something to count, measure, weigh, draw, watch, or otherwise test; something to stir him up and draw him out, and tax him on all sides. And so knowledge comes from the study, and often, with scholarly and tactful teaching, in ways that are pat. But how finely the study fits into the spirit and aptitude of the unspoiled child, widening his mind as it widens his horizon, and kindling his soul as it opens up new prospects to his delighted vision! And what capital foundations in a wakened interest and a longing for more may be laid for the later years when nature is more clearly seen as many worlds in one, and there come into sharper view the sciences of animals and of plants, of matter and its combinations, of force and its transformations, of the interrelations of all these things, and how they have come up through the long ages from their nebulous beginnings!

FRANK A. HILL,

Secretary State Board of Education.

Primary Schools. In September 1,083 children were admitted to the first grade of the primary schools, 136 of whom were under five years of age. A fourth of last year's class was left behind to repeat the work. The present number is 4,053, averaging forty-seven to a teacher. This number is altogether too large for a single teacher. We employ a teacher to every twenty-five pupils in the kindergarten and high schools, and first-grade children require as much individual attention, and must be taught in even smaller groups. Whenever a first grade teacher has more than forty pupils she is required to do more than any ordinary woman can do well.

The work we require of these little children is, in some respects, wholly unsuited to their undeveloped powers. No psychological principle is more generally recognized than that attempts to force children beyond their natural growth arrests development and produces lasting injury. Attempts to teach numbers to children under six years of age are a waste of time and energy, and, in most cases, are harmful. Indeed, many educators claim that numbers should not be formally taught to any child under seven years of age. Then, too, efforts to teach these children to write or to do any fine manual work are emphatically condemned, on the ground that the muscles which make these more delicate movements are developed much later. Some radical change in our custom in these directions is demanded. The feeling is too prevalent that from fifty to sixty children just from the nursery or the loving care of a mother, entirely without school habits, needing tender sympathy and direction, faculties of body and mind just budding, and demanding the most intelligent and scientific training, may be huddled together five hours a day under the care of a high school girl with no practical knowledge of children or experience in handling them, and yet

be properly educated. The beginnings of education are most important, and surely if small classes are anywhere advisable, if thoroughly trained, broadly educated, sympathetic, and mature teachers are anywhere needed, if a knowledge of the human mind and body and the order and process of their natural development is anywhere demanded, it is during the earliest years of a child's school life.

Kindergartens. It was found necessary to close the Hodgkins Kindergarten in June, to make room for grammar pupils. Another was opened October 1, however, in the Carr School, so that there are now five in operation in the city. The following shows how many favored ones enjoy these privileges:—

	Hanscom.	Jackson.	Prospect Hill.	Glines.	Carr.	Total.
Enrollment	100	99	106	101	47	453
Average Membership . . .	47	47	46	43	48	231
Average Attendance . . .	42	37	36	34	41	190
Per cent. Attendance . . .	88.3	78.5	77.7	78.5	85.8	82.5
Age	4—6	4—3	4—6	4—7.5	4—5	4—5

These kindergartens have cost the city \$4,892 for instruction and \$238 for supplies, a total of \$5,130, or \$22.21 per pupil. There are 172 children in the first grade that have had at least one year of kindergarten training. In only two primary classes in the city are there enough of these children to affect in any wise the instruction.

Without stopping to discuss the principles and methods of the kindergarten, or its value as an integral part of a school system, it may be remarked that, like all new things, it has its advocates and its opponents. Among the former may be found leading educational authorities and experts both at home and abroad. Among the latter are a few who question its utility, and more who oppose it on economical grounds. Between these two are a multitude who are uninformed concerning it, and who either wisely suspend judgment or foolishly denounce it as a senseless extravagance. In most communities not what is best in education, but what is possible and expedient, controls decisions and practice. The wealthy can afford what they want, the poor must be satisfied with the necessities of life. For Somerville to give all its children the kindergarten advantages which now only a few enjoy would require an annual outlay of \$25,000 and twenty-

five additional schoolrooms. This is out of the question, and yet there may be found a way to secure what we wish at an expenditure that we can afford.

By way of contrast, if not example, let us look at what is being done in a city where ideal kindergarten conditions prevail. The city of St. Louis has one of the best educational systems in the country, largely developed by Commissioner William T. Harris, who, by unanimous consent, stands at the head of American educators. In this city the first public kindergarten in this country was opened. To-day it contains 102 kindergartens, with 281 teachers and 9,150 pupils, a larger number than is found in its first grade. The rooms are used for two sessions, with different children, but the same teachers. Every large school has its kindergarten. Every kindergarten child is six years old or over, and no pupil is admitted to the first primary grade until he is seven years of age, excepting in some smaller schools without a kindergarten, where children six years old are allowed to attend school one-half of the day only. The elementary course covers eight years, and is practically the same as that of Eastern cities with nine-year courses. The difference between four and six-year-old kindergarten children and between five and seven-year-old first-graders and what they can accomplish is too obvious to require comment.

Two statements seem difficult to disprove: First, if kindergarten training is valuable, if it develops the child's faculties so that he more readily apprehends and executes, if it gives mind and body bent and skill not otherwise attained, it is our duty to place its advantages within the optional reach of all, or even so to incorporate its work into our courses that it shall be the gate through which, by compulsion, all children shall enter upon their primary school life. Second, if the kindergarten does for its graduates what is outlined above, the result should appear in the ease and rapidity with which subsequent work is done, so that a shorter time, say, eight years, might be found sufficient for primary and grammar courses. If, then, we admit that the pressure upon first-grade children is too great through present ill-advised requirements, that the number assigned to a single teacher is too large, that it is very desirable to give uniform kindergarten advantages to all parts of the city, and that all we wish may be done within the limit of nine years, instead of ten, may not some such plan as the following be worthy of consideration:—

Close the present kindergartens. Admit no child under five years of age to school privileges at any time. Assign eighty first-grade children to a schoolroom, one-half to the forenoon, the rest to the afternoon. Place two competent teachers in charge, one of whom shall be fully trained in kindergarten principles and methods. Eliminate from the first-grade course what is unsuited to age and development, and substitute therefor such kindergarten work as is best adapted to the conditions. This plan

will release at least a dozen rooms for higher grade purposes. It will require no more teachers and cost no more money. It will shorten the time children spend in the schoolroom, but it will give each child more direct instruction at the hands of the teacher, and give to all the best the kindergarten has to offer. Fewer children will need to repeat the year's work, and the second-grade teachers will receive classes fully as well prepared to advance as at present. And all this will prove a decided gain.

Brief Mention. On the twenty-fifth day of September Frank H. Hardison, who was serving his fifth year as a member of the board, resigned his office on account of removal from the city.

The board adopted resolutions of appreciation and regret, and on the eleventh of October met in joint convention with the City Council and elected William P. Jones his successor.

Somerville schools are to be represented at the Paris Exposition of 1900 by photographs, composed of exterior and interior views of the Latin and English High schools, and of the Hodgkins, Pope, and Hanscom buildings. Specimens of the work of pupils in every department of the English School and of the work in language as correlated with history, geography, science, art, and literature in grammar and primary schools were also sent. In addition to representative sheets of drawing selected from the state exhibit of drawing by the state director, a typical representation of what is done in freehand and mechanical drawing in the English School was furnished. The limited space assigned to the educational exhibit of the United States at the Exposition rendered contributions from all departments of work impossible. In this connection mention should be made of the receipt from the Lafayette Memorial Commission of a certificate in recognition of the gift of \$175 from the school children of Somerville towards the erection of a suitable monument in memory of Lafayette.

Penmanship. No subject presents greater difficulties both to learner and teacher than writing. It has no educational value. It is simply a means to an end. It seems simple enough in theory, the making of fifty-two conventional characters, either singly or in groups, but in practice it bristles with difficulties. Correct position of body and hand, ease and celerity of motion, legibility and beauty of form,—any one of these might be secured singly, but to get them all in happy combination seems next to impossible. It is difficult, if not impossible, for little children with undeveloped muscles to do much in the way of what is called movement writing. They do well to make correct letter forms in any way. For several years we attempted to secure both movement and form from middle-grade children. The result was crude movement and letter-forms without a single redeeming feature. A change was made to vertical writing. This has issued in a reversal of results,—distinct forms produced without any freedom of movement. The seven lower grades are now writing

a vertical hand. The product has the two qualities that make this style of writing so popular,—uniformity and legibility. The process, however, has thus far been slow, and characterized by cramped positions that give no promise of future ease or rapidity. There may be a few exceptions to this rule. In a recent copying exercise given to seventh and eighth grades throughout the city the rate of the vertical writers was four words in a minute, and that of the slant writers ten words a minute. No attempt whatever was made to secure speed, and mention is made of the experiment simply to show existing conditions. In our schools vertical writing has not yet passed the experimental stage, nor has the experiment been made under conditions most favorable to success. First, there should be a uniformity of system throughout the city. There was an interchange by removal and transfer of 1,600 pupils among the schools last year. This of necessity throws pupils together who have been practicing different systems, and compels a change in one direction or the other, which involves loss of progress. Second, such position of hand, arm, and body should be established as will give a reasonable expectation of increased rapidity in the future. Third, in the interests of safety to the eyes of children, which are now endangered by the necessity of a constant change of focus from desk to blackboard where now all their correct letter-forms are to be found distorted and obscured by varying angles of vision or guessed at by the near-sighted, correct letter-forms for imitation should be provided for desk use. Certainly whatever will facilitate in any way this difficult task of learning to write should be cheerfully furnished.

Manual Training. The Legislature of 1898, in revising the school laws, made instruction in manual training obligatory upon every city of 20,000 inhabitants. School committees have no more option concerning the matter than they have regarding evening schools or any other legal requirement. True, no penalty is imposed for violation of this law nor of any other school law. It is assumed that good citizens will always cheerfully comply with all laws made for the common weal, whether penalties are imposed or not. The remedy for unwise legislation is in repeal, not in disobedience. In loyal compliance with this legislation, the School Board voted early in the year that manual training should be taught to the boys and cooking to the girls of the ninth grade, and requested the city government to provide and furnish rooms for this purpose in the Franklin schoolhouse and in the Forster-school annex. Rooms are being provided in the Forster enlargement that will be available for the purpose. Unless the board is ready to recede from its position and place itself in the attitude of ignoring the law, some action should be taken to secure suitable accommodations for other parts of the city. In the construction of new buildings this need should be recognized.

As a succinct statement of the value of this form of education, the following quotation from a competent judge is presented:—

The most colossal improvement which recent years have seen in secondary education lies in the introduction of the manual training schools; not because they will give us a people more handy and practical for domestic life, and better skilled in trades, but because they will give us citizens with an entirely different intellectual fibre. Laboratory work and shop work engender a habit of observation, a knowledge of the difference between accuracy and vagueness, and an insight into nature's complexity and into the inadequacy of all abstract verbal accounts of real phenomena, which, once wrought into the mind, remain there as lifelong possessions. They confer precision; because, if you are doing a thing, you must do it definitely right or definitely wrong. They give honesty; for when you express yourself by making things, and not by using words, it becomes impossible to dissimulate your vagueness or ignorance by ambiguity. They beget a habit of self-reliance; they keep the interest and attention always cheerfully engaged, and reduce the teacher's disciplinary function to a minimum.

The Public Library and Schools. In mentioning the great moral and educational forces in the community, the home, the school, the church, come naturally foremost. We make a serious omission, however, if we fail to add, in these modern days, the press, a powerful factor, certainly, in moulding opinion, in creating taste, and in shaping character. Newspapers whiten the land. Magazines of art, science, history, literature, marvels of typographical and artistic excellence, abound within the reach of all; and books in infinite number and variety are freely furnished for the asking. Many a successful man declares with tearful eyes that all that he is he owes to a mother's influence; others attribute their success to some faithful, unselfish, inspiring teacher who turned their thoughts and steps in the right direction; and others still point with gratitude to books that have made them what they are. Books place us in touch with the great souls that have uplifted the race. Their thoughts, their example, their spirit inspire and elevate, and unconsciously become a part of our life. Who can tell how much of the strength and nobility of Lincoln's thought and character came from the three books which were the sole literary treasure-house of his youth. We can much more easily point in sadness to young men whose minds and hearts have been corrupted, and whose lives have been made unprofitable, and even wretched, by the subtle influence of pernicious literature. He who teaches a child to read opens before him two paths, one leading upward to delight and blessing, the other downward to debasement and sorrow. How great the responsibility of leaving his choice to chance or misdirection!

Parents and teachers have no more important function than the control of the reading of children committed to their care. Among the well-recognized and most welcome duties and privileges of teachers in these days, none outranks that of cultivating a liking for good books and making them easily accessible to their pupils. In this good work the public library is in hearty

sympathy and active co-operation. During the year eighty-six circulating libraries, containing 2,204 books adapted to younger children, and largely selected by their teachers, have been placed in different school buildings. Besides this, there have been 7,387 volumes circulated through the upper grades of the schools. Every facility has been accorded to teachers at the library. A children's reading room has been opened. High school pupils have not only been welcomed to the reference room, but thousands of volumes have been loaned for use in school and at home. We voice the sentiment of the public and of school authorities when we extend hearty recognition and thanks to the genial and enthusiastic custodian of the public library for his interest and help in a work second to none done by our city for its people.

Evening Schools. There is nothing but the old story to be told in regard to the evening schools. At the beginning, crowds of those who sorely feel their deficiencies, but are without strength of purpose to make the effort required to remedy them; long before the end, less than half the original number, plodding diligently along to secure what misfortune or neglect have lost them. There is no compulsion as to evening school attendance, except in the case of illiterates. The present law places responsibility upon the employer, who must satisfy himself by daily inspection of evening school cards that every person in his employ under the age of twenty-one who cannot read and write the English language regularly attends evening school during its entire term. As heavy penalties are imposed for non-compliance, the prompt discharge of the employee follows dereliction on his part. The attendance of this class has been larger than usual, and progress in many cases has been marked.

In the evening school, as elsewhere, the teacher is the school. Skilled experience, sympathy, patience, and enthusiasm cannot be secured for a dollar an evening. Many teachers, however, find a higher reward not measured by monetary standards in the progress and gratitude of those they teach. Individual instruction is the rule, classification the exception. Improvement of this class of schools lies in the direction of concentration of pupils in some central place, a more systematic organization, better-paid teachers, compulsory attendance, and a longer term.

During the season of 1898 and 1899 the drawing school in both freehand and mechanical departments, as well as three elementary schools, were in session. At the drawing school there were 6,174 hours of actual attendance by eighty-six different pupils. The expense, inclusive of heat and light, was \$1,551.88, a per capita cost of twenty-five cents an hour. At the same rate our high schools would have cost us nearly \$200,000 for the year. The actual attendance in the elementary schools was 16,105 hours by 175 different pupils. The total cost was \$1,971.92, an average of twelve cents per hour per pupil. At the same rate our gram-

mar and primary schools would have cost the city about \$1,000,-000 for the year 1899.

Ethical Instruction. In March last a communication was received by the board from a religious organization in the city questioning whether the statute regarding the reading of the Scriptures in the schools was being observed. Careful inquiry revealed the fact that substantially every teacher in the city either read, or had her class repeat, some Scripture selection each morning. In the majority of cases this was followed by the Lord's Prayer, offered in unison. In some schools the singing of a morning hymn was a regular feature.

To emphasize the duty of teachers in this connection, the following circular was issued by the Superintendent:—

To Teachers: Your especial attention is called to the Rules and Regulations as found in Section 80, page 20; Section 32, page 42; Section 105, page 26; Section 1, page 49; Section 15, page 41; as well as to pages 49, 50, 92, and 93 of the Course of Study.

To make right motives, right feeling, right thinking, right action habitual in all pupils is the true teacher's supreme aim. Every exercise in a well-ordered school helps in its attainment. The teacher's "follow me" is most effective. Specific moral lessons, however, should be given. Opportunities and illustrations abound. Because all public and private morality is based on its precepts, the reading of the Bible is required. The book should be so used as vividly and influentially to present its great moral lessons. If whatever is sectarian or objectionable to any sect represented is avoided, an inexhaustible supply will remain. The greatest advantage does not accrue from the unvarying repetition of a brief selection requiring spiritual insight to be appreciated. To memorize selections of the right kind in requisite variety is foreign to school work. Choice extracts may be memorized, however, as from other literature.

Prayer is not required as a feature of opening exercises, but if any teachers wish to pray, either alone or with their pupils joining, no one can rightfully object. Pains should be taken not to offend any, and it should be remembered that the perfunctory repetition of the words of prayer without its spirit is a mockery.

Brief, pointed stories may be read or told, "gems" may be recited, and songs whose music and sentiment are uplifting may be sung. Wisely used, the morning hour is the teacher's golden opportunity to sow good seed.

At this season of the year constant emphasis should be laid on the rights of property as to lawns, flower beds, fences, and curbstones; on street manners and the rights of pedestrians; on what children may do towards keeping streets and public places neat and free from litter; on the use of profane and vulgar language; on the growing habit of tobacco-using by boys.

In temperance-physiology instruction great wisdom is needed to present the different phases of the subject at the right time. The pathology of the subject should be postponed until the pupil is old enough to comprehend it. In all grades the moral and economic aspects of the question should be duly emphasized.

The foregoing suggestions are made not because neglect is suspected, but to call attention to that side of our work that is never in danger of being made too prominent.

The custom of the daily reading of the Bible in school has come down to us from a time when there was substantial

unanimity of belief. It is still so strongly intrenched in the sentiment and conviction of the people of Massachusetts that it will be long before the requirement is repealed. The statute contemplates its reading by pupils, as is still the case in some schools. Hereabout, however, only the teacher reads it. However fortunate may be the selection, and however impressively it may be read "without note or comment," the influence upon the pupils will be less than could be desired. Whatever, then, the teacher can do by the wise and reverent use of the Book to inspire respect for its precepts and obedience to its teachings should certainly be done.

Little will be accomplished, however, by any teacher who depends solely on this means of ethical instruction. So closely are religion and morality allied, and such is their interdependence, that some teachers hesitate for fear of encroaching on forbidden ground. An earnest purpose and great wisdom are needed to develop in the child those moral qualities which are at the basis of character, and to establish which the school is often the sole or principal agent. Home influences are to be supplemented, and sometimes supplanted, by teachers. They need not preach, but they may and should give direct and indirect ethical training. The whole trend of their school management should be in the right direction. Their high duty may be best discharged by taking advantage of opportunities that constantly arise to impress lessons of morality, duty, truth, patriotism, virtue; by the presentation of high standards and right motives; by dealing with exact and impartial justice; by the formation of habits of order, courtesy, industry, punctuality, fidelity, thrift, obedience, respect for authority; by influencing the choice of books and companions; by developing the power of self-control and self-denial; and, above all, by the silent influence of personal character and example.

School Aesthetics. Much attention is everywhere being paid to art instruction in the schools, to the development of the aesthetic side of the child. The aim is not so much the production of what is beautiful as its appreciation, the awakening of artistic feeling rather than artistic skill. Children are, of course, taught to use the pencil and the brush, and much of their work is commendable, some of it remarkable. But, besides this, time is given to the study of pictures, the masterpieces of great artists. Some knowledge is gained of the life of artists and their principal works in much the same way as the lives and productions of great writers are studied. This is not exactly the bread-and-butter side of education, although many of our graduates are now gaining a livelihood in artistic pursuits by the exercise of talents awakened and developed in our schools. But life is something more than meat, and the refinement of the taste and the power to appreciate the beautiful in nature and in art are worthy of attainment.

The widespread movement in schoolroom decoration has the accomplishment of the same objects in view. The day of blank and dingy schoolroom walls and cobwebby corners is passing. Pleasing tints and beautiful pictures, with their silent, but uplifting, influence, now greet the children's eyes. Reproductions of the best pictures of all times, photographs of the works of nature and of man the world over, abound and are within comparatively easy reach. Teachers and pupils are interested in adorning the rooms where so much of their time is spent. Several of our newer buildings, notably the Carr, Perry, Hanscom, Hodgkins, Burns, Glines, Bingham, Knapp, and Pope, have been the recipients of generous gifts from the gentlemen whose honored names they bear. The Latin School and the master's room in the larger grammar school buildings have been beautified by the generosity of their graduates. The English School will soon be hung with a thousand dollars' worth of works of art, the outcome of the musical skill and efforts of its pupils and their enthusiastic and gifted director.

In the Forster School the pupils have secured by contributions and lectures upwards of \$400 during the year for the decoration of their building.

As an indication of the popular interest in this movement, and in recognition of its value, we are glad to notice the discussion in a leading woman's club in the city of a proposition to contribute annually a small sum, at least, for the decoration of schoolhouses. Along this line ample opportunity may be found for the gratification of the desire frequently expressed by women in the community to aid in the improvement of the schools. They have shown much interest in the cleanliness and purification of schoolrooms. Let this good work be followed by their adornment. An inviting field may be found in those school buildings which pupils and parents are least able to decorate.

If the good women of the city will also lend their influence to lead the city fathers to improve the surroundings of some of our schoolhouses by providing curbing along the street front and grassing the yards, they will do much to give an appearance of neatness, completeness, and thrift, which is sorely lacking.

Parents and Teachers. And in connection with women's work and interest in education, it is pleasant to note the efforts that are making on the part of both mothers and teachers to bring themselves into closer touch and heartier co-operation with each other. Kindergartners hold monthly meetings for mothers. The custom is extending to primary schools. It should reach to all the grades. Mothers and teachers are natural allies, engaged in the noblest work permitted to human hands,—the training of children and the developing within them of pure and noble characters. Between them there should exist the fullest confidence, sympathy, forbearance, and co-operation. Distrust and antagonism should be unknown. When ideal relations exist be-

tween teacher and mother the future welfare of the child is assured.

In connection with the general subject of the relation of teacher and parent, the following words, born of long experience and sound judgment, are so timely and appropriate that we venture to quote them at length:—

The teacher's authority has its source in that of the parent. As she respects her own position, she will respect that of the child's father and mother, and whatever she can do to increase the appreciation of parental care and guidance will help her to maintain her own authority. The intelligent parent and the intelligent teacher knows that words or actions tending to lessen the other's authority, or lowering it in the esteem of the child, would tend to lessen and lower his own. It is ill-advised for the parent to speak derogatorily of the teacher in the presence of the child; it is a professional error for the teacher not to manifest good will and respect for the parent at every opportunity.

There is no relation in the whole range of social life where the pre-supposition and the need of co-operation is more natural and more imperative than in the case of the parent and teacher. Both make the welfare of the child their highest law; their reputation and well-being in life is largely dependent on the success of the education of the child, with which they are in common engaged. It is gratifying to know that in every schoolroom in the land intimate and willing co-operation between parent and teacher is the rule, and the opposite course the exception.

The work of education is carried on jointly and simultaneously in family and school, and this makes the co-operation of parent and teacher not a matter of choice, but a necessity. School is not a substitute for, but the complement of, family education; the fact that a child has attained school age does not relieve the parent of his educational duties; it simply means that henceforth the teacher will assume charge of a delegated and well-defined part of the child's training. That a teacher should assist a parent in his educational efforts, and, in turn, the parent the teacher, are well established educational maxims; without such mutual support, either side of the educational work may suffer and become unnecessarily difficult, or even unfruitful. It is clearly one of the professional duties of the teacher to strive to win the good will of the parent, and to remain in harmony and friendly touch with the pupil's home. Teacher and parent impair their educational efforts by failing to maintain good terms and touch with each other.

While co-operation between school and home is desirable, no unnecessary demand for assistance should be made upon the latter, and the legitimate share of the work must be borne by the teacher without worrying and nagging the parent with constant complaints about petty matters which belong to the legitimate duties of the school, and which a competent teacher should be able to set right without troubling others unnecessarily for assistance. As a rule, there are very few matters in the school with which a self-reliant teacher cannot deal without having recourse to other powers.

There is no parent who will not appreciate the faithful efforts of a teacher in behalf of his child. A teacher who understands how to make her room popular, not by granting unwarranted requests in favor of one child which would be unjust to others, but by good schoolroom work, by devotion to the children, and good nature in dealing with parents, renders a service to the whole great system of schools and the cause of public education. A teacher may, perhaps, get into trouble with a parent by simply doing her duty and firmly maintaining a rule required in the interests of every child in the school. In such action every school officer and, in fact, the whole community will stand by her. But a teacher who gets into trouble with parents habitually and establishes a general reputation of un-

friendliness had better indulge in a process of self-examination and reform.

It is the teacher's duty to deepen the respect which the child should have for his parent, not to lessen it directly or indirectly. No matter what the provocation is, the teacher has no right to speak of the parent in the presence of the child in any other than a courteous and friendly way. There is no necessity for the teacher to answer unfriendly messages from parents in the same spirit. Every teacher knows the cause is usually some petty misunderstanding which a friendly, courteous explanation might dispel. Most of the disagreements come about by hearsay reports of what was done in school or said at home.

Children mean to be honest and truthful, but theirs is the poetic period of life, in which fanciful exaggeration is still a characteristic of mental evolution, and allowance must be made by teacher or parent in receiving reports. Neither the child nor the adult is a good judge in his own case, and the parent makes a mistake if he judges the teacher in his own mind, and, without a hearing, convicts and condemns on the ex parte testimony of the child.

An even temper, patience, and courtesy in the intercourse with the parent, especially when disagreeable messages happen to be received from a child's home, are just as much professional duties of the teacher as patience with the children themselves. It is rare that a businesslike, kindly-worded reply, consisting of a polite explanation of the circumstances which the teacher wishes to place before the parent, and which wisely and entirely omits the element of perhaps justifiable personal resentment, will be received in any but a courteous and appreciative way. "A soft answer turneth away wrath." No teacher should forget that a parent's life is as full of trials as her own, and that the experience with a troublesome child is likely to be as irritating at home as it is in school.

F. LOUIS SOLDAN.

The following on a cognate theme is so well and truthfully said by the same eminent authority that we cannot refrain from presenting it:—

The Principal's Relation to the Community. The popularity of the school should be one of the great aims of every principal. If his school is looked upon with favor by the people of his district, he helps the public school cause: his own work and that of his teachers will be more successful and less burdensome. The control of the children will be easy and efficient, for the popularity of a school means the hearty co-operation of the parents with the measures adopted for its conduct. The patrons believe in him, and they are ready to believe in what he does. It means the very desirable active support of the system of public schools by the citizens in the district.

Every principal can help the Board of Education by endeavoring to make his school a favorite with the people, which is the natural position for any public school to occupy. Our people believe in public education and cherish it. Where a school is not popular, the probable reason is usually some mistake of omission or commission in its management.

The best and most direct way to make a school popular is to make it efficient in instruction and discipline. Efforts in this direction are sure to find their reward in public appreciation. If, in addition to this, a principal makes good use of those opportunities of forming the acquaintance of the citizens of his district, which his daily vocation offers, and thus keeps in friendly touch with the people, if he makes it the rule of his own and the teachers' management to cultivate, studiously and systematically, pleasant relations with parents, it will certainly lead to that kind of popularity which is desirable. By this treatment of parents the principal can make friends not only for himself, but for the Board of Education and the public school system of the city. It is neither necessary nor possible for

him to comply with every demand that is made on him, but even a refusal can be put in such a form that it appeals to the good will of the petitioner. Every parent must be made to feel absolutely sure of a courteous and respectful hearing when he calls at a public school, and even an angry parent should be received with good-natured patience and forbearance. Every visitor should leave with the impression that the school is officered by serious-minded men and women, who have the interest of the children at heart.

Principal and teachers should make it their aim to please the parents. This does not at all mean that the principal should allow his school to become lax in discipline, or that he should be irresolute in dealing with refractory pupils, or should be accommodating and time-serving when unreasonable demands are made on him; politic weakness is sure to result in loss of public confidence and respect. A weak man or woman cannot be an efficient principal. Our community does not wish that bad boys should grow up uncorrected. What is required of the principal is strict attention to his business, a certain kindliness of disposition towards children and parents, and the manifest wish to satisfy just demands.

Past School Boards. On subsequent pages of this report will be found the names of ninety-one citizens, to whom, under our first charter, has been entrusted the grave responsibility of administering the educational affairs of Somerville for the last twenty-eight years. Thirty-seven of them have been ex-officio members of the board. Ten mayors, serving, on the average, two and four-fifths years each, and twenty-eight presidents of the Common Council, only one of whom served more than one year.

Of the remaining sixty-two who were elected members of the board, ten have been chosen by Ward 1, the average term of service being eight and two-fifths years; one woman and eighteen men have represented Ward 2, the period of service being four and two-fifths years; seventeen men and one woman have been elected from Ward 3, each serving, on the average, four and two-thirds years; and the representatives of Ward 4 include twelve men and three women, five and three-fifths years being the average length of service. Twenty-one, one-third of the entire number, served less than a single term, sixteen others had less than two terms of service, ten were in office two terms, and the remaining fifteen served the city from seven years to twenty years each. Of the fifty-seven men, thirty have been chosen from the professions, twelve physicians, ten lawyers, six ministers, two teachers.

This list is published, not to gratify idle curiosity, but to preserve in permanent form the names of citizens to whom the present and the future must alike acknowledge their indebtedness for the schools, which are at once a source and an index of the city's prosperity.

There is too little recognition in the community of the obligations we are under to citizens who render gratuitous and exacting service in the public interest. It is easier to criticise than to approve. Results are accepted as a matter of course, while the thought, the time, the labor expended in securing them are little realized. The task of managing a complex school system, with

all the momentous interests involved in it, is one demanding the best efforts of unselfish men. The city has no more sacred trust to commit to official hands. The state has guarded this trust by conferring unusual powers and wide discretion. The best men everywhere and always, irrespective of partisan preference, should be chosen to administer it. That this principle has been carefully observed by the citizens of Somerville the list of names to which reference has been made gives ample proof. It is indicative of an intelligent appreciation of what is right and proper that our schools have thus far been kept free from political and sectarian influences, and that their management has been committed to men of sound judgment, clear knowledge of our educational needs and the best means to secure them, independent and wise in the discharge of their duties, ready and willing to give liberally of their time and labor in loyal fidelity to the vital interests entrusted to them.

Well shall it be for our city if, in this respect, the past shall be prophetic of the future. If only men of integrity, official purity, and unswerving loyalty to the public good are charged with the responsibilities of government; if citizens shall confide their highest interests only to faithful and competent men; if these men shall commit the education of our youth only to trained, sympathetic, discreet, enthusiastic, aspiring teachers, who not only point upward, but lead the way; if the public purse and the public heart shall always be open to furnish the material and moral support essential to success; and if there shall be vital union and hearty co-operation between the schools and the home, the church, the press, and whatever else makes for right thinking and right living; then, indeed, shall our city continue to be the abode of an intelligent, virtuous, and prosperous people.

In conclusion, the Superintendent wishes publicly to recognize the zeal and fidelity with which supervisors, principals, and teachers have labored in the discharge of their exacting duties, and to extend his thanks to the members of the board for the kind forbearance and hearty support accorded him during another year of service.

Respectfully submitted,

G. A. SOUTHWORTH.

Somerville, December 28, 1899.

ORGANIZATION OF SOMERVILLE SCHOOLS

Information concerning our schools is frequently sought by citizens or by school men in other localities. Following may be found the principal facts concerning them. Additional knowledge may be gained from the Rules and Regulations:—

Kindergartens.—The city supports five kindergartens, in the Hanscom, Jackson, Prospect-hill, Glines, and Carr schools. Vaccinated children between three and a half and five years of age are admitted to the kindergarten nearest their residence during the months of September and April, and may remain until the July following their fifth birthday. Sessions from 9 to 12.

Head kindergartners receive \$600. One trained assistant is allowed when the number exceeds thirty, at a salary of \$275, \$350, or \$425, according to experience. Kindergarten teachers give five hours daily to their work, the afternoon being employed in visitation, preparation, mothers' meetings, and the like.

Primary Schools.—Our elementary-school course covers nine years, the first three of which are spent in primary schools. We have no exclusively primary school buildings, the eighty-three primary classes being distributed among the twenty-three schoolhouses.

Vaccinated children five years of age, or who will reach that age on or before the first day of January, are admitted during the month of September only, provided they have never attended school before. Children able to enter existing classes will be admitted at any time. Application for admission should be made to the principal of the school.

At present the primary classes contain 4,053 pupils, forty per cent. of whom are in the first grade, thirty-two per cent. in the second, and twenty-eight per cent. in the third. Average number to a teacher, forty-seven.

Only trained or experienced teachers are employed, the salaries being \$300, \$400, \$500, or \$600, according to length of service. Normal training is equivalent to a year's experience, and experience in other places is counted in determining salary.

Teachers with classes numbering fifty-six are allowed an assistant, who is paid \$200, \$275, \$350, or \$425, according to years of service.

Grammar Schools.—The grammar classes are found chiefly in eleven large buildings of twelve rooms each. The course covers six years, and includes only those studies which the statute requires, with the addition of music, sewing, and elementary science.

Nine hundred and sixty-five pupils were promoted into the fourth grade in June last, at an average age of nine years four months. Four hundred and sixty-eight were graduated in June, at an average age of fifteen years four months. There are at the present time (December, 1899) 4,820 in the grammar schools, divided among the grades as follows:—

Fourth	.	.	1,141,	23.7 per cent.	Seventh	.	.	732,	15.2 per cent.
Fifth	.	.	1,024,	21.2 " "	Eighth	.	.	610,	12.7 " "
Sixth	.	.	860,	18.0 " "	Ninth	.	.	453,	9.2 " "

The average number to a teacher is 44.2.

The salaries of grammar school teachers are the same as those of primary teachers. Masters are paid \$1,900, and their assistants \$675.

Promotions. Promotions in all grades, from the first to the thirteenth, are made in June by the regular teacher and the principal, with the approval of the Superintendent and district committee. They are based on the estimate of the pupil's daily work made by the teacher and recorded bi-monthly. An occasional brief, unannounced, written test is a factor in this estimate.

Where there is reasonable doubt of a student's fitness, he may be promoted on a trial of three months. In such cases the parent is notified and kept informed of his child's progress. At the end of this probationary period he may be returned to his former grade, provided it seems for his interests. In 1899 9.3 per cent. of those promoted on trial fell back.

Children capable of more rapid advancement may be promoted one or more grades at any time. One hundred and thirty-six were thus promoted in 1899.

Fitness for graduation or for admission to the high schools is determined in precisely the same way. Diplomas are given in grammar and high schools to those who have satisfactorily completed full courses.

Latin High School.—In September, 1895, in the forty-third year of its existence, the Somerville High School was divided, the classical, or college preparatory, departments remaining in the old building, erected in 1872, and the English departments occupying a new building, erected in 1894-'95.

Some facts concerning the Latin School are presented in the following table:—

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction.	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	257	69	50	\$11,702	\$45.57	9	28.6
1896-7	262	81	51	11,840	45.19	9	29.1
1897-8	273	86	55	11,921	43.67	9	30.3
1898-9	264	78	51	11,935	45.21	9	29.3

The course of study in this school is determined chiefly by the requirements of Harvard University. Its graduates find ready admission to any college. The head master's certificate of

qualification is honored wherever examinations are not required.

Special courses are marked out to meet the wants of those pupils who desire special preparation for special courses for college or for professional schools.

The regular time for completing the course is four years. Pupils, at the request of their parents, can make the work of each year easier by taking five years for the course. Those who are capable and have good reason for shortening the time of preparation are allowed to complete the course in as short a time as their ability will permit.

Graduates of grammar schools are admitted to either high school on presenting a certificate of qualification signed by a master. All other pupils are admitted by an examination in grammar school studies, given usually on the Saturday preceding the opening of the schools in September.

The tuition for non-residents is the per capita cost for the year, payable in advance. The sessions of the school are from 8.30 to 1.30. The salaries paid high school teachers are given on later pages of this report.

English High School.—This school was organized in September, 1895. Information concerning it is found in the following table:—

School Year.	Average Number Belonging.	Number Entering.	Graduates.	Cost of Instruction	Per Capita Cost.	Teachers.	Pupils to a Teacher.
1895-6	456	213	67	\$20,102	\$44 13	21	21.7
1896-7	531	235	70	23,010	43 33	21	25 3
1897-8	535	224	75	24,843	46 44	22	24.3
1898-9	575	231	86	26,159	45 49	23	25.0

The course of study covers four years. Graduates are admitted to special courses when the conditions are favorable. Candidates for technical and normal schools take specific preparatory work.

Each student is required to take at least fifteen periods of prepared and five periods of work that requires no previous preparation. Unprepared work consists of drawing,—optional after the first year,—elocution, ethics, and music,—required throughout the four years,—manual training and typewriting,—optional. English language and literature, and composition, together with history, are compulsory studies throughout the course. Algebra and geometry are required during the first and second years.

The wide range of elective studies is a distinctive feature of the school. The choice of the first year may be one of the following: Latin, French, German, biology (botany and zoology),

manual training, and mechanical drawing. To these physics is added for the second year, and chemistry, geology, and astronomy for the third and fourth. After the second year two or more electives may be taken.

During the third and fourth years the student may elect in a business course, bookkeeping, commercial arithmetic, commercial law, penmanship, stenography, typewriting; in mathematics, advanced algebra, solid geometry, analytical geometry, and trigonometry; in advanced science, work in botany, zoology, physics, chemistry, and drawing.

Of the fifteen periods of prepared work the course prescribes ten periods the first year, eleven periods the second year, seven periods the third year, and seven periods the fourth year. The pupil has the privilege of selecting from the list of elective studies subjects whose recitation periods each week, or their equivalents, when added to the required prepared work, shall equal the necessary fifteen periods.

Concerning admission, sessions, etc., see Latin School.

A simple, healthful, inexpensive lunch is served at the recess midway of each session to pupils desiring it.

Manual Training.—Three rooms are fitted and equipped in the basement of the English High School for its manual training department. The course includes carpentry, wood-turning, and carving, clay modeling, pattern making, moulding, and casting. A fourth room is devoted to mechanical drawing, with a full course. Manual training has not been extended to include grammar schools.

The sub-master in charge of the manual training department is paid \$1,700, and his assistant \$1,300.

Sewing.—Sewing is taught to the girls in the fifth, sixth, seventh, and eighth grammar grades in weekly lessons of one hour each.

Two special teachers are employed at a salary of \$600 each, and an assistant at \$500.

Music.—Weekly instruction in music is given exclusively in the high schools, and in part in the three upper grammar grades by a specialist, who is paid \$1,500 for four days' service. This sum also provides the orchestral music needed at graduation exercises. The books used are "The Euterpean" and "The Cecilian Series of Music and Song," Nos. 3 and 4.

In the six lower grades musical instruction is given by the regular grade teacher, under the supervision of a specialist, who visits each class once every twelve days. She is paid \$900. The Normal System of Music, with its books and charts, is used.

Gymnastics.—In the English High School twelve minutes are taken daily for free gymnastics, under the general direction of the teacher of elocution. In elementary grades the Ling system of Swedish gymnastics is practiced daily. No special teacher is employed.

Recesses.—The Latin School has two brief recesses, breaking the daily session into thirds. The English School has a single recess at the end of the third period.

The four lower elementary grades have a five-minute recess midway of each session. The five upper grammar grades have no recess, though no unreasonable physical restraint is placed upon any pupil.

No detention of pupils is allowed at noon, and but a half-hour's detention at the close of the afternoon session, "for willful neglect of duty only."

Corporal Punishment.—Corporal punishment, "which includes any infliction of physical pain or application of physical force," is not prohibited. It must, however, not be administered until twenty-four hours after the offense, the approval of the principal being first obtained. Each case must be reported in detail to the Superintendent. There were 250 cases in 1898, and 312 in 1899.

Drawing.—A special teacher of drawing is employed in the English High School, at a salary of \$900. In that school free-hand drawing is compulsory for first-year pupils, and elective for all others. Drawing is not taught in the Latin School.

In the primary grades daily lessons, and in the grammar grades semi-weekly lessons, are given by the regular teacher, under the direction of a supervisor, who visits each class once a month and is paid \$1,000.

The course includes pictorial drawing from nature, models, and objects; structural drawing from type solids; decorative drawing, designing, and color-work, historic ornament and picture-study. No drawing books are used. Colored pencils are provided in primary grades, and water-colors and brush in grammar grades.

Penmanship.—Vertical writing is in use in the seven lower grades of the elementary schools, the Natural and the Duntonian systems being used. The Wells Natural Movement method of slant writing is taught in the two upper grades. No copybooks are used. The supervisor visits each class once in three weeks, and receives \$1,200.

Student Teachers.—At the present time two student teachers are employed in each high school. They are graduates of college or technical schools, and serve without pay under the direction of the head master.

The Public Library.—The English School has a working library of 1,000 volumes, but it draws constantly on the public library located in an adjoining building.

For four years there has been a constant use of the library by school children. Circulating libraries of fresh books are in use in the smaller buildings. Books are delivered and collected each week at the large grammar schools. As far as they can,

teachers aid in the selection of books by children, and the Librarian and his assistants cheerfully render all the help in their power.

Evening Schools.—An evening drawing school for freehand and mechanical work is open in the Latin schoolhouse from October to April, on Tuesday and Thursday evenings, from 7.30 to 9.30. Full information regarding courses is given on subsequent pages. The principal is paid \$5, and assistants \$3 and \$4 an evening.

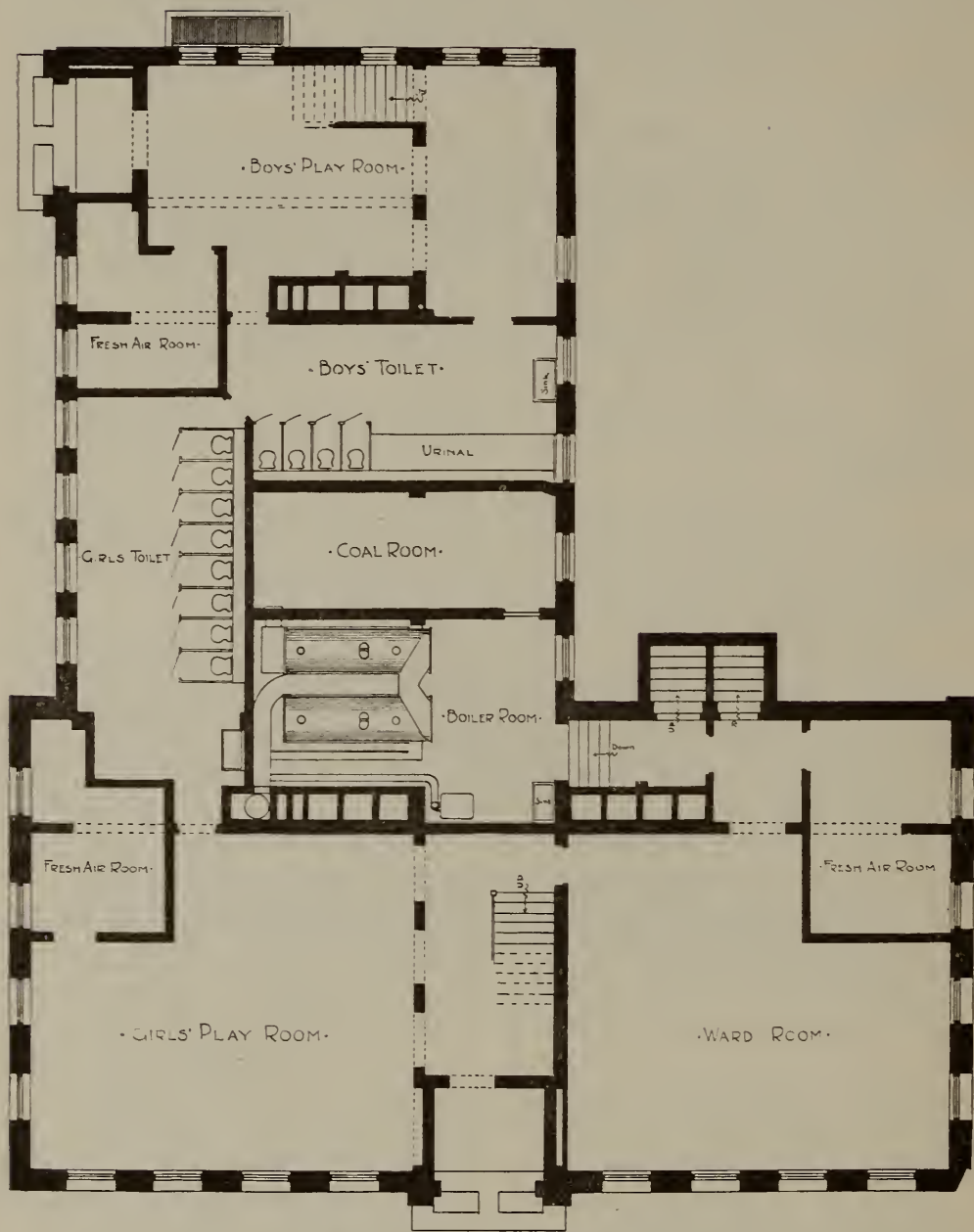
Elementary evening schools are open in the Prescott, Bell, and Highland buildings from October 1 on four evenings a week, from 7.30 to 9.30. The length of the term is dependent on the interest and attendance. The course of study followed is that prescribed by the statute. Principals receive \$3, and assistants \$1.50 and \$1 each evening.

Truants —The city employs one active truant officer, who is paid \$1,900. His duties are prescribed in the rules found elsewhere. Truants are sent to the county truant school at North Chelmsford. There are now seven truants from Somerville in the school.

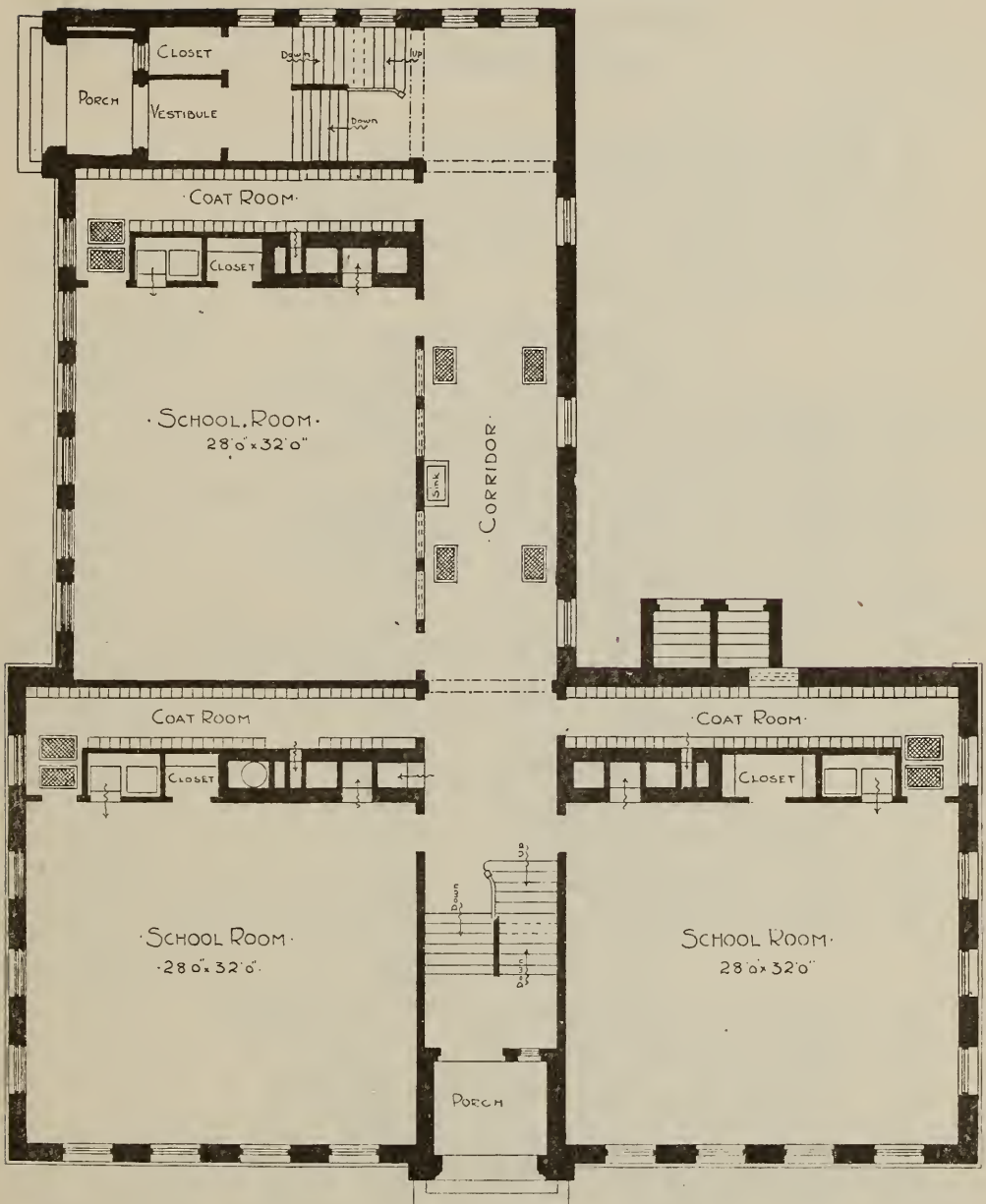
Janitors.—These important officers are appointed by the City Council Committee on Public Property, and are under the direction of the Superintendent of Public Buildings, who is also superintendent of janitors, and the school principal.

Supervision.—The Superintendent of Schools is the executive officer of the board, and upon him devolves the general management of the schools under its direction. He serves as the secretary of the board and supply agent. His salary is \$3,000, and he is allowed a clerk, who receives \$650. His office is in the City Hall Annex, and his hours are from 4 to 5 each school day, and from 8 to 9 on Saturday. His office is open from 8 to 12 and from 1.30 to 5 on school days, and from 8 to 10 on Saturday.

The meetings of the School Board are held on the last Monday evening of each month, except July, at eight o'clock.



BASEMENT PLAN, PERRY SCHOOL.



FIRST FLOOR PLAN, PERRY SCHOOL.

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TABLE 1.—SCHOOLHOUSES.

	NAME.	No. of Classrooms.	Size of Lot	Valuation.	When built.	No. of years used.	Enlargements.
1	Latin High . . .	a4	.....	\$56,000	1871	28	
2	English High . .	b15	.....	141,579	1895	4	
3	Prescott	12	21,444	47,000	1867	32	
4	Edgerly	12	26,428	47,000	1871	28	{ 4 rooms added 1882 4 " 1892
5	Bell	12	23,393	47,000	1874	25	
6	Knapp	13	24,517	50,257	1889	10	4 rooms added 1894
7	Pope	12	27,236	62,000	1891	8	
8	Forster	13	27,499	47,000	1866	33	
9	Glines	14	28,800	73,661	1891	8	5 rooms added 1896
10	Morse	12	29,109	47,000	1869	30	6 " 1890
11	Carr	15	21,400	64,000	1898	1	
12	Highland	12	23,260	55,000	1880	19	4 rooms added 1891
13	Hodgkins	12	35,034	60,789	1896	3	
14	Bingham	8	21,017	37,907	1886	13	4 rooms added 1894
15	Burns	8	16,080	35,700	1886	13	4 " 1899
16	Prospect Hill . .	6	25,313	21,000	1848	51	4 " 1865
17	Perry	6	46,080	40,000	1899	..	
18	Hanscom	6	12,756	44,532	1897	2	
19	Bennett	4	20,560	10,600	1868	31	
20	Jackson	4	11,212	8,600	1861	38	
21	Davis	4	38,152	25,700	1884	15	
22	Cummings	4	11,300	15,700	1884	15	
23	Durell	4	13,883	16,879	1894	5	
24	Lincoln	4	17,662	14,700	1885	14	
Total		216	.....	\$1,069,604	....	..

(a) Six recitation rooms, a physical laboratory, three teachers' rooms.

(b) A chemical, a physical, a biological laboratory, a recitation room, a lecture hall, drawing room, two teachers' rooms, library, and principal's office. Four manual training rooms and lunch-room in basement.

TABLE 2.—COST OF MAINTAINING SCHOOLS, 1899.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High . . .	\$12,355 89	\$1,792 57	\$657 60	\$14,806 06
English High . . .	28,392 14	3,124 33	4,361 36	35,877 83
Prescott . . .	9,909 88	1,822 55	623 95	12,356 38
Edgerly . . .	9,974 01	1,457 67	679 71	12,111 39
Davis . . .	2,648 57	554 69	232 69	3,435 95
Bell . . .	9,989 01	1,651 21	595 03	12,235 25
Cummings . . .	2,646 57	474 89	211 09	3,332 55
Knapp . . .	10,671 56	1,757 93	830 68	13,260 17
Pope . . .	9,965 32	1,571 52	590 63	12,127 47
Prospect Hill . . .	3,989 90	625 55	231 11	4,846 56
Bennett . . .	2,609 07	340 96	164 55	3,114 58
Jackson . . .	3,020 82	361 26	224 52	3,606 60
Forster . . .	11,975 10	1,608 98	1,162 84	14,746 92
Glines . . .	11,510 07	1,852 26	619 83	13,982 16
Bingham . . .	6,246 40	840 27	447 53	7,534 20
Morse . . .	10,142 50	1,467 18	664 55	12,274 23
Carr . . .	12,178 22	2,201 62	659 31	15,039 15
Durell . . .	2,660 32	835 81	226 12	3,722 25
Perry . . .	2,054 46	362 72	663 97	3,081 15
Burns . . .	4,601 55	1,051 64	459 97	6,113 16
Highland . . .	9,917 87	1,458 48	512 57	11,888 92
Lincoln . . .	2,819 80	684 45	210 57	3,714 82
Hodgkins . . .	10,209 95	1,514 96	718 43	12,443 34
Hanscom . . .	4,367 42	858 67	261 66	5,487 75
Evening . . .	2,803 50	851 64	120 93	3,776 07
Totals . . .	\$197,659 90	\$31,123 81	\$16,131 20	\$244,914 91

TABLE 3. — PER CAPITA COST OF MAINTAINING SCHOOLS, 1899.

SCHOOLS.	Teachers.	Care.	Supplies.	Total.
Latin High . . .	\$48 08	\$6 97	\$2 56	\$57 61
English High . . .	46 17	5 08	7 09	58 34
Prescott . . .	19 09	3 51	1 20	23 80
Edgerly . . .	19 40	2 84	1 32	23 56
Davis . . .	15 05	3 15	1 32	19 52
Bell . . .	18 81	3 11	1 12	23 04
Cummings . . .	15 75	2 84	1 26	19 85
Knapp . . .	18 28	3 01	1 42	22 71
Pope . . .	19 13	3 02	1 13	23 28
Prospect Hill . . .	17 42	2 73	1 01	21 16
Bennett . . .	16 21	2 12	1 02	19 35
Jackson . . .	17 87	2 14	1 33	21 34
Forster . . .	18 22	2 45	1 76	22 43
Glines . . .	18 50	2 98	99	22 47
Bingham . . .	16 35	2 20	1 17	19 72
Morse . . .	18 61	2 69	1 22	22 52
Carr . . .	18 91	3 42	1 02	23 35
Durell . . .	14 61	4 59	1 24	20 44
Perry . . .	15 33	2 71	2 26	20 30
Burns . . .	13 49	3 09	1 35	17 93
Highland . . .	17 74	2 61	92	21 27
Lincoln . . .	15 75	3 82	1 18	20 75
Hodgkins . . .	18 53	2 75	1 30	22 58
Hanscom . . .	16 67	3 28	1 00	20 95
High. Schools . . .	\$46 73	\$5 64	\$5 76	\$58 13
Gram. and Primary . . .	18 18	3 03	1 29	22 50
All Schools . . .	20 80	3 28	1 70	25 78

TABLE 4. — ANNUAL COST OF MAINTAINING THE SCHOOLS
FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Membership.	Instruction and Supervision.	Water and Light.	Heating.	Janitors.	School Supplies.	Total
1885	4,904	\$79,506	\$728	\$4,965	\$4,000	\$8,449	\$97,648
1886	4,985	83,542	624	4,929	4,194	6,676	99,865
1887	5,198	86,713	765	6,475	5,084	7,526	106,563
1888	5,488	88,967	953	7,121	5,892	7,421	110,354
1889	5,956	96,466	805	6,081	6,448	9,903	119,703
1890	6,486	104,184	1,004	5,586	7,539	10,371	128,684
1891	6,502	114,066	1,047	8,032	8,544	13,899	145,588
1892	7,035	124,232	1,064	7,148	9,794	12,944	155,183
1893	7,217	128,720	1,014	8,312	10,160	10,137	158,333
1894	7,212	132,919	958	9,673	10,686	10,919	165,155
1895	7,617	144,113	1,398	8,796	11,581	15,063	180,951
1896	8,077	161,551	1,469	9,962	14,160	17,601	204,743
1897	8,589	180,222	1,920	10,065	16,251	14,815	223,273
1898	9,085	189,244	2,075	9,767	17,393	14,986	233,465
1899	9,502	197,660	2,472	10,821	17,831	16,131	244,915

TABLE 5. — ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	Janitors, Water, Heat and Light.	School Supply Expenses.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation
1885	\$16 21	\$1 98	\$1 72	\$19 91	\$24,878,400	.00392
1886	16 76	1 94	1 34	20 03	26,003,200	.00384
1887	16 68	2 37	1 45	20 50	27,469,300	.00388
1888	16 21	2 54	1 36	20 11	28,756,400	.00384
1889	16 20	2 24	1 66	20 10	30,004,600	.00399
1890	16 06	2 18	1 60	19 84	32,557,500	.00395
1891	17 54	2 71	2 14	22 39	36,843,400	.00395
1892	17 66	2 56	1 84	22 06	38,093,100	.00407
1893	17 84	2 70	1 40	21 94	41,773,600	.00379
1894	18 43	2 96	1 51	22 90	44,142,900	.00374
1895	18 92	2 86	1 98	23 76	46,506,300	.00390
1896	20 00	3 17	2 18	25 35	49,013,050	.00418
1897	20 98	3 29	1 73	26 00	50,173,775	.00444
1898	20 83	3 22	1 65	25 70	50,739,700	.00460
1899	20 80	3 28	1 70	25 78	51,202,350	.00478

TABLE 6. — AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1885	\$19,185	\$7 052	\$97,648	\$113,885
1886	15,515	8,706	99,865	114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	223,273	290,400
1898	49,983	21,274	233,465	304,722
1899	72,516	15,637	244,915	333,068

TABLE 7. — POPULATION OF SOMERVILLE.

1842	1,013	1885	29,992
1850	3,540	1890	40,117
1860	8,025	1895	52,200
1865	9,366	1896	54,400
1870	14,693	1897	56,000
1875	21,594	1898	57,500
1880	24,985	1899	60,000

TABLE 8.—ATTENDANCE OF THE PUBLIC SCHOOLS, 1899.

Rooms Occupied in December.	Schools.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Cases of Tardiness.	No. Cases of Dismissal.	No. Cases of Punishment.	No Attending in January.	No Attending in December.	Average No. to Classroom in December.
4	Latin	285	257	246	95.9	72	138	0	267	254	63.5
15	English	638	615	588	95.5	119	65	0	586	699	41.0
12	Prescott	696	519	494	95.0	103	48	23	531	554	46.3
12	Edgerly	614	514	488	95.1	81	45	21	518	534	44.5
4	Davis	235	176	166	94.2	81	45	10	173	182	45.5
12	Bell	654	531	511	96.3	85	93	13	557	545	45.4
4	Cummings	224	168	156	93.7	68	33	8	173	174	43.5
13	Knapp	772	584	552	94.5	158	127	21	601	612	47.1
12	Pope	623	521	499	95.8	174	51	36	543	527	44.0
5	Prospect Hill	352	229	204	91.9	98	22	15	252	223	45.6
4	Bennett	231	161	150	92.8	88	29	10	165	189	46.8
4	Jackson	270	169	152	93.1	82	17	16	157	158	39.5
17	Forster	742	657	620	94.5	124	29	26	611	775	45.6
14	Glines	845	622	578	94.0	93	10	6	658	623	44.1
8	Bingham	519	382	360	94.2	85	28	17	409	356	44.5
12	Morse	720	545	515	95.0	109	95	13	576	549	45.8
15	Carr	804	644	604	93.8	240	181	33	693	648	43.8
4	Durell	248	182	170	93.2	83	34	2	180	187	46.7
6	Perry	135	134	125	94.4	81	34	11	36	294	48.8
8	Burns	366	341	319	93.8	222	109	3	260	393	49.1
12	Highland	699	559	534	95.4	113	160	10	580	571	47.6
4	Lincoln	247	179	168	93.7	36	29	1	182	201	50.0
12	Hodgkins	698	551	523	95.5	88	51	12	572	556	46.2
6	Hanscom	358	262	243	93.5	83	42	5	258	271	45.2
219	Total	11,975	9,502	8,965	94.3	2,566	1,515	312	9,538	10,075	45.6
209	Total for 1898	11,577	9,085	8,636	95.1	2,941	1,321	256	9,051	9,637	46.3

TABLE 9.—STATISTICS OF HIGH SCHOOLS FOR SCHOOL YEAR, SEPTEMBER 6, 1898, TO JUNE 30, 1899.

	Latin.	English.	Both.
Number of days school kept . . .	183	183	183
Number enrolled	283	630	913
Average number belonging	263.6	574 5	838.1
Average daily attendance	253.4	548.5	801.9
Per cent. of attendance	95.8	95.4	95.7
Tardiness	75	113	188
Dismissals	131	55	186
In Class I. September	75	231	306
June	71	185	256
Per cent. of loss	5.3	19 0	13.9
In Class II. September	81	158	239
June	74	138	212
Per cent. of loss	8 6	12 0	11.2
In Class III. September	59	120	179
June	54	115	169
Per cent. of loss	8.5	4 0	05.6
In Class IV. September	54	98	152
June	54	80	134
Per cent. of loss	0	12.0	11.8
Special Students	3	13	16
Total, September	*269	*607	*876
June	253	518	771
Per cent. of loss	5.9	14.6	11.9
Number graduates, male	24	34	58
Number graduates, female	27	52	79
Total	51	86	137
Average age, male	18-0	18-11	18-6
Average age, female	18-8	18-7	18-7
Number of graduates entering college .	30	7	37
Number of graduates entering M. I. T.	1	6	7
Number of graduates entering normal schools	1	2	3
Cost of instruction	\$11,935 00	\$26,159 00	\$38,094 00
Cost of supplies and equipment . . .	584 80	2,651 05	3,235 85
Total cost	12,519 80	28,810 05	41,329 85
Per capita cost of instruction	45 21	45 49	45 40
Per capita cost of supplies and equip- ment	2 22	4 61	3 86
Total cost per capita	47 43	50 10	49 26

* Specials not included.

TABLE 10.—PUPILS BY GRADES, 1899.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Average Age.		Never in School Before.	From Other City Schools.	From Other Schools.
		Men	Women		Boys.	Girls.	Total.	Years.	Months.			
			Regular.	Assistants.								
Latin	Thirteenth . .	....	....	....	20	33	53	17	11	.....	.....	.....
"	Twelfth . . .	....	....	....	25	39	64	17	5	.....	1	3
"	Eleventh . . .	....	....	....	26	47	73	16	2	.....	2	8
"	Tenth . . . .	....	....	....	36	28	64	15	7	.....	59	6
	Total	3	6	....	107	147	254	..	.....	.....	62	17
English	Special . . . .	....	....	....	5	11	16	19	7	.....	4	3
"	Thirteenth . .	....	....	....	30	67	97	18	3	.....	.....	3
"	Twelfth . . .	....	....	....	43	82	125	17	8	.....	3	4
"	Eleventh . . .	....	....	....	61	101	162	16	4	.....	1	5
"	Tenth . . . .	....	....	....	125	174	299	15	7	.....	288	23
	Total	8	19	1	264	435	699	...	.....	.....	296	38
	Total High School .	11	25	1	371	582	953	..	.....	.....	358	55
Grammar	Ninth	9	13	....	189	264	453	14	10.0	.....	14	29
"	Eighth . . . .	....	14	....	271	339	610	14	0.2	.....	35	47
"	Seventh . . . .	....	18	....	348	384	732	13	1.9	2	74	63
"	Sixth . . . . .	....	20	....	432	428	860	12	1.7	.....	146	105
"	Fifth	1	21	1	499	525	1,024	11	3.9	.....	367	127
"	Fourth . . . .	....	23	....	581	560	1,141	10	1.0	.....	254	172
	Total Grammar . . .	10	109	1	2,320	2,500	4,820	....	.....	2	930	543
Primary	Third . . . . .	....	26	....	566	577	1,143	8	9.0	.....	206	176
"	Second . . . .	....	28	....	647	656	1,303	7	7.2	1	241	209
"	First . . . . .	....	33	2	844	763	1,607	6	2.2	1,016	232	265
	Total Primary . . .	....	87	2	2,057	1,996	4,053	....	.....	1,017	719	650
	Total Grammar and Primary .	10	196	3	4,377	4,496	8,873	....	.....	1,019	.....	1,193
	Kindergarten . .	....	5	5	130	119	249	4	5.6	307	4	2
	Special Teachers	2	5	..	.....	.....	.....	.....	.....	.....	.....	.....
	Grand Totals	23	231	9	4,878	5,197	10,075	...	.....	1,326	2,011	1,250

TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS.

	High Schools.	Grammar and Primary - Schools.	Kinder- gartens.	Total
Annual enrollment . . .	923	10,546	506	11,975
Average membership . . .	872	8,351	279	9,502
Average attendance . . .	834	7,902	229	8,965
Per cent. of attendance . . .	95.5	94.6	82.0	94.3
Number cases of tardiness . .	191	2,375	...	2,566
Number cases of dismissal . .	203	1 312	...	1 515
Number cases of punishment . .	...	312	..	312
Membership, January, 1899 . .	853	8,444	241	9,538
Membership, December, 1899 . .	953	8,873	249	10,075
Average number to a teacher . .	25.7	45.6	24 9	45.6

TABLE 12.—ADMISSIONS TO FIRST GRADE IN SEPTEMBER,
1898 AND 1899.

SCHOOLS.	1898.	1899.	Under five in Sept., 1898.	Under five in Sept., 1899.
Prescott	37	53	9	8
Edgerly	26	32	2	2
Bell	27	32	1	1
Knapp	59	63	17	9
Pope	22	37	1	4
Forster	42	71	9	12
Glines	65	69	4	5
Morse	58	66	11	4
Carr	49	52	3	7
Highland	43	47	4	1
Hodgkins	51	60	6	10
Bingham	53	60	6	6
Burns	42	67	3	19
Prospect Hill	17	30	..	2
Perry	15	51	6	5
Hanscom	45	57	12	13
Bennett	27	47	4	4
Jackson	22	28	..	..
Davis	26	34	4	8
Durell	25	46	2	8
Lincoln	46	44	6	4
Cummings	33	37	9	4
Total	830	1,083	119	136

Average age, 1898, 5 years, 6.1 months.

Average age, 1899, 5 years, 6 months.

TABLE 13.—GRAMMAR SCHOOL GRADUATES, 1899.

SCHOOLS.	Number receiving Diplomas.	Number certificated for High School.		Number entering Latin School.		Number entering English School		Total.	
		Conditionally.	Unconditionally	Conditionally.	Unconditionally.	Conditionally	Unconditionally	Conditionally.	Unconditionally
Prescott . . .	37	36	0	0	0	0	22	0	22
Edgerly . . .	40	37	3	0	3	1	29	1	32
Bell	50	46	4	0	9	3	26	3	35
Knapp	34	27	3	0	5	0	21	0	26
Pope	34	29	5	0	4	6	8	6	12
Forster	62	44	13	1	5	5	31	6	36
Glines	37	28	5	1	3	3	23	4	26
Morse	48	35	11	1	9	3	25	4	34
Carr	38	37	1	0	7	1	18	1	25
Highland	49	45	1	0	4	0	36	0	40
Hodgkins	39	34	5	1	6	1	24	2	30
Outside				0	6	0	22	0	28
Total	468	398	51	4	61	23	285	27	346

TABLE 14.—TRUANT STATISTICS.

	1896.	1897.	1898.	1899.
Number of visits of officer to schools	364	427	415	538
Absences investigated	312	342	411	448
Cases of truancy	116	110	135	158
Truants arrested	16	10	7	6
Sent to Truant School	8	8	6	6
Number released during year . .	. .	. .	8	5
Number now in Truant School . .	. .	. .	9	7

TABLE 15. — ATTENDANCE IN EVENING SCHOOLS, SEASON OF 1898-1899.

		Prescott.	Bell.	Highland.	Total.
Enrolled	Male	53	222	55	330
	Female	20	52	12	84
	Total	73	274	67	414
Ave. Membership	Male	35	76	19	130
	Female	16	20	9	45
	Total	51	96	28	175
Ave. Attendance	Male	27	50	13	90
	Female	12	12	5	29
	Total	39	62	18	119
Per cent. Att. out of No. Be- longing . . . . .	. .	76.4	64.6	64.3	68.0
Per cent. Att. out of Enroll- ment . . . . .	. .	53.4	22.6	26.8	28.7
No. of Teachers	Male	3	2	2	7
	Female	1	5	1	7
	Total	4	7	3	14
No. of Sessions . . . . .	. .	78	78	47	
Teachers, cost of . . . . .	. .	\$480 00	\$834 00	\$271 50	\$1,585 50
Janitors and supplies, cost of .	. .	111 79	202 89	71 74	386 42
	Total	\$591 79	\$1,036 89	\$343 24	\$1,971 92
Per evening . . . . .	. .	\$7 58	\$13 29	\$7 30	\$28 17
Per pupil in average member- ship . . . . .	. .	11 60	10 80	12 25	11 26
Per pupil in average attendance	. .	15 17	16 72	19 06	16 57

Average attendance:—

October . . . 177
November . . . 140
December . . . 102

January . . . 71
February . . . 55

**TABLE 15 (Concluded).—EVENING DRAWING SCHOOL,
SEASON OF 1898-1899.**

		Industrial.	Freehand.	Total.
Enrolled	Male	82	30	112
	Female	.	13	13
	Total	82	43	125
Ave. Membership . . .	Male	56	20	76
	Female	..	10	10
	Total	56	30	86
Ave. Attendance . . .	Male	43	13	56
	Female	..	7	7
	Total	43	20	63
Per cent. of Attendance out of Number Belonging .	Male	76.8	66.6	73.2
	Female	..	70.0	70.0
	Total	76.8	66.6	73.2
Per cent. of Attendance out of Enrollment	Male	52.4	43.3	50.0
	Female	..	53.8	53.8
	Total	52.4	46.5	52.4
No. of Teachers	Male	4	..	4
	Female	..	2	2
	Total	4	2	6

Cost of Instruction	\$1,143	50
Cost of Supplies, Janitors, and Light	408	38
Total cost	\$1,551	88
Cost per Capita (Average Membership)	18	04
Cost per Capita (Average Attendance)	24	63
Number of Sessions	49	
Average Attendance:—		
October	90	January 53
November	77	February 49
December	60	March 49

TABLE 16.—GRAMMAR SCHOOL GRADUATES
FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Edgerly.	Pope.	Knapp.	Hodgkins.	Glines.	Carr.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership Graduating.	Entered High School.	Per cent. entering of those Graduating.
1885	51	73	28	30	29							211	4,584	4.60	155	73.46
1886	60	66	26	23	22							197	4,635	4.25	133	67.51
1887	52	67	28	37	37							221	4,849	4.56	146	66.06
1888	54	64	34	41	50							243	5,109	4.75	156	64.19
1889	59	91	48	42	41							281	5,568	5.04	169	60.14
1890	54	106	45	56	57							318	6,062	5.24	184	57.86
1891	44	73	41	55	44	39						296	6,035	4.90	199	67.23
1892	41	36	75	49	45	49	36	39				370	6,525	5.67	228	61.62
1893	40	60	48	63	67	46	36	38				398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32				389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34				374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35				370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25	45	27		368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	35		382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	37	38	468	8,351	5.64	345	73.72
	675	863	725	705	729	382	280	265	125	99	35	4,886	92,710	5.27	3,238	66.27

TABLE 17. — ATTENDANCE STATISTICS
FOR A SERIES OF YEARS.

DECEMBER.	ENROLLMENT.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Number of Tardinesses.	Ratio of Tardiness to Average Attendance.
1885	6,276	4,904	4,627	94.4	2,480	0.536
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341
1899	11,975	9,502	8,965	94.3	2,566	0.286

TABLE 18.—MEMBERSHIP, ETC., OF HIGH SCHOOL

FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47
1897	8,589	885	10.31	121	1.59
1898	9,085	890	9.80	130	1.43
1899	9,502	985	10.70	137	1.49

TABLE 19.—PROMOTIONS FOR SCHOOL YEAR ENDING
JUNE 30, 1899.

GRADE.	On June Promo- tion List.	Unconditionally Promoted to Next Grade.	Promoted on Trial.	Left Behind.	Promoted more than One Grade.	Special Promotions between September and June.	Promotees Dropped back after Three Months' Trial.
I	1,624	1,093	106	425	12	2	11
II	1,162	935	90	137	25	7	11
III	1,099	887	78	134	5	3	7
IV	1,068	834	89	145	5	1	11
V	917	678	92	147	1	3	8
VI	777	593	103	81	..	12	8
VII	661	483	90	88	14	6	9
VIII	516	381	73	62	12	13	2
IX	479	398	51	30	..	15	3
Total	8,303	6,282	772	1,249	74	62	70

Percentage of Promotions for School Year Ending June 30, 1899.

GRADE.	On June Promo- tion List.	Unconditionally Promoted to Next Grade.	Promoted on Trial.	Left Behind.	Promoted more than One Grade.	Special Promotions between September and June.	Promotees Dropped back after Three Months' Trial.
I	100	67.3	6.5	26.2	0.7	0.1	10.4
II	100	80.4	7.7	11.9	1.1	0.6	12.2
III	100	80.7	7.1	12.2	0.5	0.3	9.0
IV	100	78.1	8.3	13.6	0.5	0.1	12.3
V	100	73.9	10.1	16.0	0.1	0.3	8.7
VI	100	76.3	13.3	10.4	..	1.5	7.7
VII	100	73.1	13.6	13.3	2.1	0.9	10.6
VIII	100	73.8	14.2	12.0	2.3	2.5	2.7
IX	100	83.1	10.6	6.3	..	3.1	5.9
Total	100	75.7	9.3	15.0	0.9	0.8	9.3

TABLE 20. — RESIGNATIONS OF TEACHERS, 1899.

SCHOOL.	Teacher.	Time of Resignation.	In Service.
Prescott . .	Grace L. Shaw.	June 26.	7 years.
Hanscom . .	Carrie A. Pond.	"	2 "
Edgerly . .	Alice M. Dearing.	"	9 "
Davis . . .	Abbie J. Prouty.	"	2 "
Knapp . . .	Nellie F. Sheridan.	"	11 "
Bennett . .	Mary B. Smith.	"	14 "
Glines . . .	Gertrude F. Brown.	"	2 "
Glines . . .	Laura A. Lamont.	Aug. 28.	4 "
Forster . .	Minnie L. Burglund.	June 26.	1 "
Hodgkins . .	Maud M. Hartwell.	"	1 "
Durell . . .	Grace A. Bosworth.	"	5 "
Lincoln . .	Grace A. Hutchins.	Aug. 28.	2 "
English High.	Merle S. Getchell.	"	4 "
English High.	Winfred C. Akers.	Sept. 25.	3 "

TABLE 21. — TEACHERS ELECTED IN 1899.

SCHOOL.	Teacher.	Coming From	Date.	Salary.
Bell . . .	Grace E. Weeks.	New Bedford.	Feb. 27.	\$600
Pope . . .	Ella M. Robinson.	Framingham.	"	600
Prescott . .	Susan M. Hosmer.	Wakefield.	June 26.	600
Davis . . .	Mary A. Holt.	Everett.	"	600
Perry . . .	Laura B. Underhill.	Milton.	"	725
Knapp . . .	Edith Hersey.	Revere.	"	600
Knapp . . .	Mary E. Stearns.	Barre.	"	600
Knapp . . .	Charlotte Holmes.	Beverley.	Nov. 27.	600
Glines . . .	Mary G. Woodman.	Everett.	June 26.	600
Glines . . .	Ida M. Record.	Somerville.	Nov. 27.	500
Glines . . .	Carrie Armitage.	"	"	500
Forster . .	Mary C. Strange.	Stoneham.	June 26.	600
Forster . .	Gertrude F. Deane.	Reading.	"	600
Forster . .	Jo Winslow K ng.	Hopedale.	"	600
Forster . .	Mary I. Bradish.	Somerville.	Nov. 27.	600
Bingham . .	Ida M. Kimball.	Reading.	June 26.	600
Bingham . .	Nellie R. Bray.	Somerville.	Nov. 27.	600
Highland . .	Mary E. Cunningham.	Revere.	June 26.	600
English High	Fred O. Small.	E. Machias, Me.	Aug. 28.	1,400
English High	Harriet E. Tuell.	Fall River.	"	900
English High	Hila H. Small.	Somerville.	"	850
English High	Bertha P. Marvel.	Winchendon.	"	800
English High	William I. Corthell.	Leominster.	Sept. 25.	1,300
English High	Bessie L. Forbes.	Somerville.	"	400
Hanscom . .	Elsie B. Porter.	Revere.	Aug. 28.	600
Edgerly . .	Fannie G. Holt.	Tyngsboro.	"	600
Bennett . .	Agnes S. Campbell.	Somerville.	Nov. 27.	675
Bennett . .	Carrie L. Bliss.	"	"	600
Perry . . .	Florence M. Marshall.	Revere.	"	600
Durell . . .	Maud M. Brackett.	Lawrence.	"	600
Hodgkins . .	Ida M. Pettee.	Brockton.	"	600
Hodgkins . .	Almena J. Mansir.	Somerville.	"	500
Lincoln . .	Martha A. Jenks.	Webster.	"	600
Carr . . .	Ethel F. Morang.	Somerville.	"	500
Burns . . .	Amy W. Freeman.	"	Dec. 28.	500

TABLE 22. — LEAVE OF ABSENCE OF TEACHERS.

October 1. Florence M. Gooding, for nine months.

TABLE 23. — TIME LOST BY TEACHERS IN 1899.

SCHOOL.	Number of Teachers.	Days Lost.	Days per Teacher.
1. Latin High	9	1	0.1
2. English High	28	76	2.1
3. Prescott	13	13	1.0
4. Hanscom	7	30	4.3
5. Davis	4	5	1.2
6. Bennett	4	2	0.5
7. Jackson	5	30½	6.1
8. Knapp	14	44	3.1
9. Perry	6	..	0.0
10. Pope	13	2½	2.2
11. Prospect Hill	6	17	2.8
12. Bell	13	79	6.0
13. Cummings	4	..	0.0
14. Edgerly	13	30½	2.3
15. Glines	16	64½	4.0
16. Forster	18	37½	2.1
17. Bingham	9	39½	4.4
18. Carr	18	45	2.5
19. Morse	13	39	3.0
20. Durell	4	8	2.0
21. Burns	8	37	4.6
22. Highland	13	20	1.5
23. Hodgkins	13	42½	3.3
24. Lincoln	5	45½	9.1
25. Special	7	20½	2.9
Total	263	795½	3.0

TABLE 24.—NUMBER OF TEACHERS

FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in charge of room.	Men.	Women.	Total.
1885	9	63	48	1	0	10	111	121
1886	9	62	48	1	0	9	111	120
1887	10	64	48	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	32	112	87*	7	13	23	229	252
1899	36	119	92*	7	9	23	240	263

*Five Kindergartners.

TABLE 25.—NAMES OF MEMBERS OF THE SCHOOL BOARD UNDER THE FIRST CHARTER

JANUARY, 1872, TO JANUARY, 1900.

Mayors.

George O. Brastow	. . . . .	1872-'73	. . . . .	2 yrs.
William H. Furber	. . . . .	1874-'75	. . . . .	2 yrs.
Austin Belknap	. . . . .	1876-'77	. . . . .	2 yrs.
George A. Bruce	. . . . .	1878-'80	. . . . .	3 yrs.
John A. Cummings	. . . . .	1881-'84	. . . . .	4 yrs.
Mark F. Burns	. . . . .	1885-'88	. . . . .	4 yrs.
Charles G. Pope	. . . . .	1889-'91	. . . . .	3 yrs.
William H. Hodgkins	. . . . .	1892-'95	. . . . .	4 yrs.
Albion A. Perry	. . . . .	1896-'98	. . . . .	3 yrs.
George O. Proctor	. . . . .	1899	. . . . .	1 yr.

Presidents of the Common Council.

Oren S. Knapp	. . . . .	1872	. . . . .	1 yr.
Charles G. Pope	. . . . .	1873	. . . . .	1 yr.
William H. Hodgkins	. . . . .	1874	. . . . .	1 yr.
Samuel M. Pennock	. . . . .	1875	. . . . .	1 yr.
Stillman H. Libby	. . . . .	1876-'77	. . . . .	2 yrs.
Luther B. Pilsbury	. . . . .	1878	. . . . .	— — 6 mos.
Jesse J. Underhill	. . . . .	1878	. . . . .	— — 6 mos.
Edward Glines	. . . . .	1879	. . . . .	1 yr.

TABLE 25. — Names of Members of the School Board Under the First Charter.— Continued.

JANUARY, 1872, JANUARY, 1900.

James W. Bailey	1880	1 yr.
Mark F. Burns	1881	1 yr.
Albion A. Perry	1882	1 yr.
Frank E. Fitts	1883	1 yr.
Josiah B. Mayhew	1884	1 yr.
Herbert C. Hall	1885	1 yr.
Walter C. Mentzer	1886	1 yr.
Charles L. North	1887	1 yr.
George O. Proctor	1888	1 yr.
Albert W. Edmands	1889	1 yr.
Charles B. Osgood	1890	1 yr.
Frank E. Dickerman	1891	1 yr.
Isaiah H. Wiley	1892	1 yr.
Fred W. Gilbert	1893	1 yr.
Frank W. Kaan	1894	1 yr.
L. Herbert Huntley	1895	1 yr.
George E. Whitaker	1896	1 yr.
F. DeWitt Lapham	1897	1 yr.
Francis M. Wilson	1898	1 yr.
Charles A. Grimmons	1899	1 yr.

From Ward One.

Joshua H. Davis	1872	— — 3 mos.
Henry M. Moore	1872-'85	14 yrs.
Uriah R. Harding	1872	1 yr.
Sanford Hanscom, M. D.	1872-'80, 1890-'99	18 yrs., 5 mos.
S. S. Woodcock	1873-'75	3 yrs.
John H. Butler	1876-'87	12 yrs.
Horace C. White, M. D.	1881-'92	12 yrs.
S. Newton Cutler	1886-'99	14 yrs.
H. P. Hemenway, M. D.	1888-'90	2 yrs., 2 mos.
George S. Poole	1893-'99	7 yrs.

From Ward Two.

Rev. George W. Durell	1872-'74, 1883-'85	6 yrs.
Edwin Mills	1872-'73	2 yrs.
Rev. J. W. Hamilton	1872-'73	1 yr., 3 mos.
Oren S. Knapp	1873, 1879-'84	6 yrs., 9 mos.
Rev. Charles Lowe	1874	1 yr.
Daniel E. Chase	1874-'77	4 yrs.
M. F. Farrell	1875-'78	4 yrs.
Rev. H. H. Barber	1875	1 yr.
Charles S. Lincoln	1876-'80	5 yrs.
Enos T. Luce	1878	— — 11 mos.
Alphonso H. Carvill, M. D.	1879-'82, 1886-'91	10 yrs.
Rev. A. E. Winship	1881-'83	3 yrs.
Mrs. Cornelia B. Skinner	1884-'85	2 yrs.
Charles I. Shepard	1885-'90	6 yrs.
James F. Beard	1886-'92, 1897-'99	10 yrs.
T. M. Durell, M. D.	1891-'96	6 yrs.
Alvah B. Dearborn, M. D.	1892-'99	8 yrs.
Herbert A. Chapin	1893-'98	6 yrs.
Fred W. Gilbert	1899	1 yr.

TABLE 25. — Names of Members of the School Board Under the First Charter—Concluded.

JANUARY, 1872, JANUARY, 1900.

From Ward Three.

Henry F. Spencer	1872-'77	6 yrs.
Selwyn Z. Bowman	1872, 1878-'79	1 yr., 5 mos.
Samuel A. Carlton	1872	— — 11 mos.
Walter S. Barnes	1879	— — 8 mos.
Reuben Willis, M. D.	1872-'75	4 yrs.
Samuel M. Pennock	1873	1 yr.
James E. Whitney	1874-'75	2 yrs.
Joseph P. Williams	1876-'79	4 yrs.
Albion A. Perry	1876	— — 10 mos.
Henry F. Woods	1877-'84	8 yrs.
Q. E. Dickerman	1880-'99	20 yrs.
Norman W. Bingham	1880-'94	15 yrs.
William P. Hill	1885-'90	6 yrs.
Helen J. Sanborn	1891-'93	3 yrs.
Thomas S. Wentworth	1894-'96	3 yrs.
Frank H. Hardison	1895-'99	4 yrs., 9 mos.
William P. Jones	1899	— — 3 mos.
George W. W. Whiting, M. D.	1897-'99	3 yrs.

From Ward Four.

Horace Chapin, M. D.	1872-'77	6 yrs.
Prof. Benjamin G. Brown	1872-'76, 1879-'88, 1892-'94	17 yrs., 3 mos.
Enoch R. Morse	1872	1 yr.
Russell H. Conwell	1873	1 yr.
Colonel Charles F. King	1874-'78	5 yrs.
Walter H. Colburn	1877-'79	2 yrs., 9 mos.
Rev. Charles M. Smith	1878-'83	6 yrs.
Henry C. Buck	1879-'81	3 yrs.
Harriet M. Pitman	1882-'83	2 yrs.
Martin W. Carr	1884-'99	16 yrs.
Horace P. Makechnie, M. D.	1884-'99	6 yrs.
Mrs. Addie B. Upham	1889-'91	3 yrs.
Giles W. Bryant, M. D.	1890-'98	9 yrs.
George A. Miles, M. D.	1895-'99	5 yrs.
Mrs. H. B. H. Attwood	1899	1 yr.

Superintendents of Schools.

Joshua H. Davis	1872-'88	16 yrs., 4 mos.
Clarence E. Meleney	1888-'93	5 yrs., 4 mos.
Gordon A. Southworth	1893-'99	6 yrs., 4 mos.

TABLE 26. — BOOKS AUTHORIZED FOR USE, 1899.
For Grammar and Primary Schools.

Child Life Series of Readers.
Nash's First Reader.
Lights to Literature Series.
Colonial Massachusetts.
Wilson's History Reader.
Four Great Americans.
Four Great American Patriots.
Guerber's Story of the English People.
Clarendon Dictionary.
Rational System of Reading.

For High Schools.

Le Siege de Paris,	Sarcey.
La Chute,	Hugo.
Selected Letters of Madame de Sevigne,	Syms.
First Book in French,	Le Roy.
History of Greece,	Botsford.
Office Routine Bookkeeping,	Williams & Rogers.
Astronomy,	Todd.
Astronomy,	Howe.
Physiology,	Overton.
Physiology,	Blaisdell.
Physiology,	Dunglison.
Essentials of Algebra,	Wells.
New School Algebra,	Wentworth.

TABLE 27.—GRADUATION EXERCISES, 1899.**High Schools.**

The graduation exercises of the high schools occurred on Tuesday evening, June 27, at the First Methodist Episcopal Church, in the presence of a large audience of parents and friends.

The address to graduates was given by Rev. George H. Lorimer, D. D., of Boston.

At the close of the address, His Honor Mayor Proctor presented diplomas to the 137 members of the graduating classes.

The graduation exercises were followed by a reception to the graduates and their parents, given by the School Board, at which about 500 were present.

Order of Exercises.

- | | |
|---|-------------|
| Overture. "Rosamunde." | Schubert |
| Hadley's Orchestra. | |
| 1. *Singing. Excerpts from Cantata "Joan of Arc." | A. R. Gaul |
| a. Chorus (Peasants), "Gien." A Shepherd Maid Has Passed. | |
| b. Chorus (The Choir), In the Cathedral. | |
| 2. Prayer. | |
| Rev. Nathan K. Bishop. | |
| 3. Singing. Three-part Songs. | |
| a. "Fret Not Thyself To-day." | Gaul |
| b. Cradle Song. | Taubert |
| Girls' Voices. | |
| 4. Address to Graduates. | |
| Rev. George H. Lorimer, D. D., of Boston. | |
| 5. Singing. Ballade for Soli, Chorus, and Orchestra. | |
| "Lelawala," An Indian Legend of Niagara. | |
| Poem by George Anderson. Music by H. K. Hadley. | |
| Indian Motives from the Aboriginal. | |
| Solos by Miss Lottie Williams, of the English High. | |
| (Conducted by the Composer.) | |
| 6. Presentation of Diplomas. | |
| Mayor George O. Proctor. | |
| 7. Singing. Four-part Songs. | |
| a. My Love's Like a Red, Red Rose. | Garrett |
| b. Farewell to the Forest. | Mendelssohn |

*Accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

Latin High School Graduates.

Elsie Gertrude Ashton.	Ruth Moulton Harmon.
Grace Nancy Blood.	Mary Alice Kilmer.
Blanche Gertrude Bowtell.	Minnie Gertrude Kimpton.
Maude Ella Butters.	Mary Winship Kingsley.
Anna Emma Callahan.	Lena Lea Lewis.
Grace Elizabeth Clough.	Charlotte Raymond Lowell.
Helen Dearborn.	Esther Laffay Abigail McCloskey.
Mary Ellen Driscoll.	Emma Georgina Medros.
Edna Mary Friend.	Ethel Almira Moore.
Mabel Emilie Hall.	Harriet Cleveland Moore.

Amy Faustina Phillips.
 Edith Wilder Poole.
 Elva Inez Shattuck.
 Ethel Marion Tarbox.
 Alice Ida Teele.
 Luella Parker Winship.
 Stephanie Josephine Zoeller.
 Samuel Ellsworth Armstrong.
 Albion Millett Boothby.
 Arthur Warren Byam.
 Dean Gray Edwards.
 Frank Eugene Fitts, Jr.
 George Holland Garcelon.
 Arthur Francis Gooding.
 Torr Wagner Harmer.
 George Laurence Harrington.

Robert Brine Harrington.
 Wallace Eugene Hubbard.
 Mark Robert Jouett, Jr.
 Charles Allen Keach.
 Ralph Preble Keyes.
 Frederick Mills Kilmer, Jr.
 Thomas Sawyer Knight.
 Harry Warren Litchfield.
 Christopher Muldoon, Jr.
 George Leon Peirce.
 Roscoe Hunter Philbrick.
 Harry Joseph Sanborn.
 Isaac Franklin Story.
 Stanley Hovey Tead.
 Carleton Grieves White.

English High School Graduates.

Emily Bates Anderson.
 Edith Florence Baker.
 Gertrude Frances Ball.
 Anna Louise Beckwith.
 Ruphena May Benner.
 Jennie Elizabeth Brown.
 Alice Mae Cavanagh.
 Marion Helen Chase.
 Marguerita Lewis Clarke.
 Ellen Ada Dellea.
 Mildred Arland Dolliver.
 Lillian Mary Dudley.
 Ada May Durell.
 Ethel Conant Fairbanks.
 Florence Marguerite Farrell.
 Annie May Fleming.
 Ella Gertrude Flynn.
 Marguerite Foote.
 Alice May Gilman.
 Grace Iva Godfrey.
 Lottie Edith Gordon.
 Ada Gertrude Hartwell.
 Myrtie Blanche Haskell.
 Clyda Blanche Hazeltine.
 Mary Magdalen Healey.
 Marion Gertrude Hitchings.
 Annie Rich Hopkins.
 Ellen Louise Hunter.
 Charlotte Florence Huntley.
 Alice Mabel James.
 Jennie May Landers.
 Jennie Mabel Lindquist.
 Lula Martin.
 Alice Theodora Mason.
 Jennie Grace Mason.
 Elsie Viola McQuarrie.
 Mary Estelle Morton.
 Amelia Martina Norris.
 Jennie Estella Perry.
 Louise Amy Pitman.
 Hattie Florence Ralph.
 Myra Lavinia Roffe.
 Mildred Silsbee.

Margaret Bertha Sprague.
 Elsie Tufts.
 Grace Lillian Tuttle.
 Ethel Twycross.
 Elizabeth Warren Waldron.
 Mary Ida Wentworth.
 Bertha Adelia Whipple.
 Lottie Elizabeth Williams.
 Annie May Witham.
 Francis Joseph Brine.
 Martin Henry Cassidy.
 Allen Granger Chapin.
 Charles Francis Cuddy.
 Alvah Webster Dodge.
 Arthur Eugene Ellis.
 Curtis Stowell Fairbanks.
 Ernest Durell Foster.
 George Stoddard Gerrish.
 Leo Sprague Greenwood.
 Joseph Roy Harris.
 Arthur Vivian Howland.
 James William Lacy.
 Merrill Scott Lovering.
 William Douglas Macrae.
 Henry Eckert Mead.
 Ernest Litchfield Nichols.
 Walter Crane Nickerson.
 John Joseph A. Nolan.
 William Joseph O'Connor.
 Arthur Lloyd Philbrick.
 Carleton Cleveland Pipe.
 Charles Roy Pipe.
 George Joseph Pratt.
 Guy Crosby Riddell.
 Ralph Robinson.
 Hubbard Vaughan Smith.
 Russell Harold Spaulding.
 Alton Lyford Stevens.
 William Emery Taylor.
 Harold Kenney Thomas.
 Theodore Henry Tomfohrde.
 Edward Lawrence Watson.
 Ernest Weston Young.

TABLE 28.—GRAMMAR SCHOOL GRADUATES.

The number of grammar school graduates was so large,—468,—that it was found necessary to devote two evenings to the graduation exercises. Accordingly, Wednesday evening, June 28, and Thursday evening, June 29, were set apart for the purpose. The following was the order of exercises on Wednesday evening:—

Order of Exercises.

- | | |
|---|-------------|
| Overture. "Fra Diavolo." | Auber |
| Hadley's Orchestra. | |
| 1. *Singing. Day of Glory, "Norma." | Bellini |
| 2. Prayer. | |
| Rev. Thomas E. Potterton. | |
| 3. Singing. Duet and Chorus. | |
| I Waited for the Lord, "Lobgesang." | Mendelssohn |
| Master Joseph C. Hegarty, of "Morse," and Edwin Lester, of "Prescott." | |
| 4. Address to Graduates. | |
| Professor Charles D. Adams, of Hanover, N. H. | |
| 5. Singing. The Moonlight Boatride. Miserere and Prison Song. "Trovatore." | Verdi |
| Scene. Two pleasure parties are enjoying a moonlight boat-ride, while from a chapel standing on a hillside overlooking the lake is wafted the chant of the chapel choir. Inspired by the music, so in harmony with the beauty of the night, their voices mingle with those of the chapel choir. | |
| 6. Presentation of Diplomas. | |
| Mayor George O. Proctor. | |
| 7. Singing. Solo and Chorus. | |
| The Marathon Race. Toreador Song, "Carmen." | Bizet |
- *Singing accompanied by Hadley's Orchestra, under the direction of S. Henry Hadley, teacher of music in the schools.

Names of Graduates.**Luther V. Bell School.**

Allen R. Anderson.
Annie E. Babcock.
Norma I. Bake.
Laura M. Baron.
Walter F. Blaisdell.
Amy F. Bowers.
Gladys R. Bridgham.

Emma C. Brodil.
Ethel Burroughs.
Tyler E. Carpenter.
Florence R. Colburn.
Carrie E. Decrow.
James E. Doughty.
Walter R. Eberts.

Truman C. Edwards.
James C. Emerson.
Mary E. Fitzgerald.
Bessie G. Fuller.
Grace L. Fuller.
Ruth L. Gorrie.
F. Laurence Gray.
Olivia C. Greene.
Elizabeth E. Greenleaf.
Edith J. Haines.
Mary E. Harrigan.
Harriett E. Howes.
Harold W. Lander.
Warren G. Lawson.
Gertrude M. Leddy.
Beatrice F. Lowery.
Charles N. Manning.
Grace E. Manning.

Martha E. Macloskey.
Maud E. McKennett.
Mary L. McQuarrie.
Florence G. Merrill.
Charlotte Montgomery.
Lillian Montgomery.
Gordon Morrison.
Ernest H. Paine.
Ethel M. Paine.
May E. Peterson.
Amy G. Pring.
Edith M. Reece.
Idella M. Rice.
Flora B. Smith.
Maud E. Smith.
Ernest Thorpe.
Anthony Weyand.

Charles G. Pope School.

M. Mildred Bennett.
Blanche L. Burroughs.
Elmer A. Burton.
William J. Carroll.
Eva M. Cole.
Walter L. Corliss.
Isabel Cummins.
Alice M. Dollard.
Lillian A. Elwin.
Ansel W. Estabrook.
Edna Gilkey.
William E. Gillette.
Berenice A. Gilman.
Alfred F. Goeckeler.
Mabel E. Hetherington.
Pearl A. Hills.
Gertrude E. Kitchen.

Joseph Komenda.
Kathleen M. Loane.
Nellie A. Lowden.
Julia A. Marden.
G. Sylvester McLaughlin.
Grace M. McNamara.
Chester M. Mills.
Harold L. Niles.
Edward P. Noonan.
Florence H. Plimpton.
Jennie M. Roberts.
Estelle M. Royal.
Grace B. Sherman.
Walter L. Stevens, Jr.
J. Leverett White.
Jennie A. Williston.
Jerry J. Ziegel.

Oren S. Knapp School.

Alice R. Alfonse.
Margaret M. Berglof.
Edgar M. Bradley.
Gladys A. Budgell.
Bessie A. Clark.
Goldie M. Chambers.
Ethel M. Cook.
A. Maud Craig.
Ina B. Davis.
William E. Denvir.
Franklin G. Fillebrown.
Alfred A. Gallagher.
Marie E. Guscott.
Charles B. Gummo.
Thomas F. Healy.
John Jennings, Jr.
Ada E. Kanaly.

Leo T. Kanaly.
Frank V. Kenney.
Esther V. Leland.
Mildred T. Littlefield.
Elizabeth MacDonald.
J. Leo Marchant.
David McIntyre.
Maud D. Ryan.
Emma F. Sargent.
Jesse N. Sargent.
Maria Sears.
Jackson Sherra.
Leo I. Smith.
Maud B. Swasey.
Linnette B. Twitchell.
Sarah E. Vaughan.
Joseph M. Wright.

Forster School.

Marjorie W. Armstrong.
 Leslie E. Babbitt.
 Earl W. Bailey.
 George R. Baird.
 May H. Baker.
 F. Harold Baldwin.
 Mabelle A. Boyle.
 Mary E. Burke.
 Daniel J. Carroll.
 Henry T. Chickering.
 Letitia F. Clark.
 Ella J. Clifford.
 Charles S. Cohen.
 Clara L. Collins.
 Harry L. Collins.
 David L. Countway, Jr.
 Mabel A. Crankshaw.
 H. Brooks Crosby.
 Grace W. Cushing.
 Harry M. Dix.
 William J. Donahue.
 Lura A. Elliott.
 Marion H. Farrar.
 Agnes T. Fitzgerald.
 Catherine J. Friel.
 Annie T. Gallen.
 Elizabeth M. Grady.
 Charles T. Hardison.
 Helen E. Hardison.
 Harrison P. Higgins.
 J. Phillips Hinckley.

Louis G. Keyes.
 Claire W. Kidder.
 Sarah W. Kilmer.
 Lewis W. LaDuke, Jr.
 Helen L. Laycock.
 Almira F. Leavitt.
 James B. Lowell.
 Helen F. Lyon.
 Edna M. Mackinnon.
 Violet F. MacLean.
 Annie F. McCarthy.
 William H. McKenna.
 Pearl E. Miller.
 Delia A. Moran.
 Frank A. Moran.
 Hazel C. Moulton.
 Mabel E. Page.
 Samuel T. Page.
 Ralph P. Robinson.
 Harold M. Shaw.
 Ina H. Simonds.
 Stilson H. Smith.
 Sadie B. Stackpole.
 Alice L. Sweatt.
 Rena M. Thacher.
 Marion G. Todd.
 Pauline L. Todd.
 Charles C. Trenholm.
 Frank W. Tucker.
 Matt Whitney.
 Chester O. Williams.

Jacob T. Glines School.

Grace M. Andrews.
 Josephine O. Atkins.
 Josephine M. Briggs.
 Walter E. Burbank.
 M. Gertrude Cameron.
 Leon A. Clough.
 Robert C. Cochrane.
 Annie M. Collins.
 Louis E. Dexter.
 Mabel B. Duddy.
 M. Louise Dyer.
 Ethel C. Eastman.
 M. Isabel Hallett.
 Ida M. Hobbs.
 George R. Hopkins.
 Sadie M. Kyle.
 Clarence R. Lamont.
 John H. Lombard.
 Margaret M. MacKay.

Wallis A. McCoy.
 Emma M. McKinley.
 Frederick L. Olmsted.
 M. Louise Paon.
 H. Ernest Partridge.
 Bessie M. Perry.
 Eugene V. Potter.
 Olive B. Rice.
 William A. Sanborn, Jr.
 Mary B. Spike.
 C. Louise Stickney.
 Amy M. Stimpson.
 Marion K. Tufts.
 William A. Watson.
 Lilian Witham.
 May E. Witham.
 Isabel A. Witham.
 Frank B. Young.

The following was the order of exercises for Thursday evening, June 29 :—

Order of Exercises.

- Overture. "Fra Diavolo." Auber
Hadley's Orchestra.
1. *Singing. Day of Glory, "Norma." Bellini
2. Prayer.
Rev. Orville Coats.
3. Singing. Duet and Chorus.
I Waited for the Lord, "Lobgesang." Mendelssohn
Master Joseph G. Hegarty, of "Morse," and Chester
Spinney, of "Highland."
4. Address to Graduates. Subject: "Mental Health."
Rev. Everett D. Burr, of Boston.
5. Singing. Trio, Sweet May. Barnby
Girls' Voices.
Orchestration by S. Henry Hadley.
6. Presentation of Diplomas.
Mayor George O. Proctor.
7. Singing. The Moonlight Boatride. Miserere and Prison Verdi
Song. "Trovatore."
Scene. Two pleasure parties are enjoying a moonlight
boatride, while from a chapel standing on a hillside overlooking
the lake is wafted the chant of the chapel choir. Inspired by the
music, so in harmony with the beauty of the night, their voices
mingle with those of the chapel choir.
First Boat-party, Sopranos; Second, Tenors.

*Singing accompanied by Hadley's Orchestra, under the direction of
S. Henry Hadley, teacher of music in the schools.

Prescott School.

Mary E. Ahearn.	Mary E. Knight.
Chester G. Ames.	Edwin Lester.
Nadage K. Bidwell.	Albert E. Loveless.
Mary C. Corkery.	Carrie L. Littlefield.
Eva M. Downes.	Effie D. Murdoch.
John A. Dunbar.	Jannette S. McLean.
Clara L. Fitch.	Mildred L. Nichols.
William H. Fitz Gerald.	Bertha W. Prouty.
Edward J. Fitzpatrick.	Howard W. Rae.
Ethel M. Francis.	Amie I. Ramsdell.
Francis L. Graves.	John S. Rankin.
Florence Ham.	Frank W. Strout.
Joseph G. Haney.	John A. Tarbell.
Harry W. Hart.	Ambrose B. Taylor.
Milan L. Hatch.	Henry Taylor.
John C. Holland.	Philip B. Teakles.
Herbert R. Huntley.	Paulina Wellington.
Lura A. Hutchins.	Ethel M. West.
Edward R. Hyde.	

Edgerly School.

Emory L. Chaffee.	Anna T. Driscoll.
H. Louise Chandler.	Katherine A. Driscoll.
Leslie A. Coles.	Anna F. Estes.
George P. Cummings.	Arthur Francis.
Clarence H. Daley.	Lillian E. Gove.
Pearl F. Dame.	Margaret A. Hatchell.
Louis A. Davis.	Albert W. Headley.
Alice M. G. Dawley.	Florence C. Henderson.

Carl R. Hodgdon.
Edward F. Holland.
Arthur W. Macdonald.
Arthur F. Mathieu.
M. Alice Mitchell.
P. Henry Murray.
Cora E. Nickerson.
Guy R. Perkins.
Ferdinand Schwab.
Bessie L. Sinnett.
William A. Smith.
Annie Spillane.

Alice P. Stodder.
Alma D. Stone.
Henry C. Stone.
Eva F. Taylor.
Walter F. Taylor.
Ethel M. West.
Carl H. Whitney.
Mildred Whiton.
Helen A. Wilbur.
Florence M. Woodbridge.
Bessie H. Wright.
Everette Young.

Morse School.

Reginald Benting.
Ruth Benton.
Grace L. Bolton.
Edith T. Bossey.
Ernest Boyd.
Irving M. Butterworth.
Mary G. Canfield.
Edith G. Carleton.
Alfred W. Dickinson.
Arthur H. Duhig.
Oscar N. Engstrom.
Arthur W. Fallis.
Charles E. Fisher.
Oliver G. Fosdick, Jr.
Carolyn G. Fraser.
Edna L. Fraser.
Arthur W. Freund.
Chester O. Garland.
Helen M. Garland.
Lottie E. Grant.
Ethel M. Harlow.
Mary E. Harrington.
Robert T. Healey.
Joseph G. Hegarty.

Ida M. Hooper.
Edna P. Jones.
Gertrude M. Jones.
D. Joseph Keefe.
C. E. Jessie Kelsea.
Leonard M. Kiley.
Carl M. McDonald.
Annie M. McLeod.
Leah C. Melvin.
Christina M. Morrison.
M. Aloysina Nangle.
Charles E. Nichols.
Oscar W. Peterson.
Chester A. Polsey.
Harold S. Prescott.
Alice L. Reid.
Katherine E. Reynolds.
Amelia A. Ringdahl.
Ida M. Schnetzer.
Robert S. Sawyer.
George E. Shaw.
Addie N. Trask.
Sophie M. Vincent.
Howard W. Wilkins.

Highland School.

Elizabeth A. Baro.
Edith G. Benjamin.
Martha D. Benwell.
B. Lucille Clark.
Ethel M. Coman.
Arthur A. Connelly.
Erna M. Coolbaugh.
Mary L. Cunningham.
Herbert A. Currier.
Francis H. Danolds.
Ellsworth J. Dickson.
Blanche E. Dupont.
Harry C. Fallis.
Nellie L. Fife.
Carrie M. Frost.
Harry A. Gilman.
Walter C. Gilman.
Catherine T. Grady.
Laura E. Gurnham.

Olga M. Kindlund.
Joseph P. Mahoney.
Carrie S. Marsh.
James A. McCoy, Jr.
Teresa G. McLaughlin.
Francis B. Melvin.
Chester A. Merrifield.
Alice F. Murphy.
Scott O. Neely.
John G. Niles.
Gino S. Pacetti.
William H. Perry.
Edwin D. Philbrick.
Chester Rand.
Ethel W. Reeves.
Florence E. Sanborn.
Chester R. Spinney.
Leslie H. Steele.
Walter E. Stewart.

Albert H. Stinson.
Frank H. Stratton.
Florence E. Sullivan.
Margaret E. R. Sutton.
Charles B. Sefranka.
Charles A. Thompson.

W. Foster Wade.
Eric H. Weren.
Isabelle P. Wilson.
Belle O. Wiswell.
Gertrude M. Yerxa.

William H. Hodgkins School.

Edith M. Bailey.
George R. Barton.
Hattie E. Boak.
Fred W. Briggs.
John E. Cassidy.
Bertha M. Cleverley.
Alice E. Collupy.
Roy E. Comee.
C. Maud Cosgrove.
Alice M. Darling.
Arthur R. Davis.
Frank E. Dewick.
Nellie M. Dickason.
Dora B. Dodge.
Laura M. Elliott.
Ella F. Fenton.
Percy C. Gilbert.
Elsie G. Lamont.
Amelia L. Laurent.
Dudley B. Marshall.

Mary N. Neales.
Carlotta Nix.
Marion F. Orme.
Myra H. Paine.
Charles E. Patch.
Ralph L. Patrick.
Mattie M. Pease.
Alma C. Pelton.
Bessie B. Pelton.
Gerald Pipe.
Caroline P. Richardson.
George O. Schick.
Una M. Sharpe.
Everett W. Steeves.
Damon B. Stevens.
Emma G. Taylor.
Mabel Taylor.
Philip R. Webber.
Esther P. Woodman.

Martin W. Carr School.

William N. Adams.
Florence E. Arnold.
Michael J. Blackwell.
William C. Blake.
Eleanore M. Bragdon.
Grace E. Day.
William H. Davis.
Mary M. Doris.
Lillian M. Fisher.
Edwin P. Fitzgerald.
Florence Green.
Alice G. Hale.
Sadie A. Henderson.
William I. Kneeland.
Florence R. Lafield.
William H. Lafield.
Katherine I. Laverty.
George C. Lomax.
Grace Massey.
Roswell A. Meserve.

Helen R. McGrath.
Harriet G. Morgan.
George W. Pratt.
Beatrice R. Robertson.
George A. Sexton.
Gilbert W. Skinner.
Walter R. Snyder.
Raymond F. Tift.
Anson C. Tuttle.
Irving C. Tyler.
Charlotte A. Wall.
William Wall.
Isabelle Wallace.
Walter A. Watkins.
Margaret E. Waugh.
Benjamin F. Wells.
Walter B. Widtfeldt.
Walter I. Williams.
Marion V. White.

TABLE 29.—ORGANIZATION OF SCHOOL BOARD, 1900.

School Committee.

JAMES F. BEARD,	.	.	.	.	.	.	.	.	Chairman
S. NEWTON CUTLER,	.	.	.	.	.	.	.	.	Vice-Chairman

Members.

		Term expires January.
WARD ONE.		
GEORGE S POOLE,	46 Mt. Vernon street.	1901
S. NEWTON CUTLER,	28 Flint street.	1902
WARD TWO.		
EDWARD J. FLYNN,	1 Tremont place.	1901
JOHN H. O'NEIL,	44 Oak street.	1902
WARD THREE.		
DANA W. BENNETT,	41 Putnam street.	1901
JAMES F. BEARD,	17 Prospect-hill avenue.	1902
WARD FOUR.		
WILLIAM P. JONES,	13-A Maple avenue.	1901
GEORGE W. W. WHITING,	282 Broadway.	1902
WARD FIVE.		
J. WALTER SANBORN,	183 Central street.	1901
QUINCY E. DICKERMAN,	85 Central street.	1902
WARD SIX.		
MARTIN W. CARR,	74 Craigie street.	1901
FREDERICK A. P. FISKE,	44 Cherry street.	1902
WARD SEVEN.		
HENRIETTA B. H. ATTWOOD,	18 Herbert street.	1901
GEORGE A. MILES,	249 Elm street.	1902

The Committee holds its regular meetings on the last Monday evening of each month at 8 o'clock.

Superintendent of Schools,

GORDON A. SOUTHWORTH.

Office: City Hall Annex, Highland avenue.

Residence: 40 Greenville street.

The Superintendent's office will be open from 8 to 12 and from 1.30 to 5; Saturdays, 8.30 to 10. His office hours are from 4 to 5 on school days and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Eleanor L. Hannay, Superintendent's clerk, 273 Medford street.

TABLE 29.—ORGANIZATION OF SCHOOL BOARD, 1900.—Concluded.

Standing Committees.

High Schools.—Cutler, Beard, Whiting, Dickerman, Carr, Miles, Flynn.

LATIN, ENGLISH.

District (or Ward) I.—Poole, Cutler.

PRESCOTT, HANSCOM, DAVIS, BENNETT, JACKSON.

District (or Ward) II.—O'Neil, Flynn.

KNAPP, PERRY.

District (or Ward) III.—Beard, Bennett.

POPE, PROSPECT HILL, BELL, CUMMINGS.

District (or Ward) IV.—Jones, Whiting.

EDGERLY, GLINES.

District (or Ward) V.—Sanborn, Dickerman.

FORSTER, BINGHAM.

District (or Ward) VI.—Carr, Fiske.

CARR, MORSE, DURELL, BURNS.

District (or Ward) VII.—Miles, Mrs. Attwood.

HIGHLAND, HODGKINS, LINCOLN.

Additional School Accommodations.—Cutler, Poole, O'Neil, Beard,
Jones, Sanborn, Carr, Miles.

Evening Schools.—Dickerman, Poole, Bennett.

Finance.—Bennett, Poole, Miles.

Industrial Education.—Carr, Beard, Mrs. Attwood.

Music.—Mrs. Attwood, Bennett, Sanborn.

Private Schools.—Flynn, Sanborn, Bennett.

Repairs of School Buildings.—Fiske, Whiting, O'Neil.

Rules and Regulations.—Miles, Jones, Fiske.

Salaries.—Whiting, Sanborn, Cutler.

Supplies.—Poole, Dickerman, O'Neil.

Text-books and Courses of Study.—Beard, Cutler, O'Neil, Jones, Dickerman, Fiske, Mrs. Attwood.

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.

NAME.	Residence.	Salary.	Beginning of Service.
LATIN HIGH SCHOOL.			
GEORGE L. BAXTER, Head Master,	27 Warren ave.	\$3,000	1867
Frank M. Hawes, Master,	257 School st.	2,000	1879
Charles T. Murray, Sub-Master,	28 Franklin st.	1,700	1887
Sarah W. Fox,	99 Irving st., Cambridge.	1,200	1868
Frances W. Kaan,	12 Pleasant ave.	1,000	1882
Eudora Morey,	61 Hemenway st., Boston.	900	1882
Mrs. Lena Gilbert,	51 Elmwood st.	900	1893
Florence H. Paul,	120 Summer st.	900	1894
R. Adelaide Witham,	62 Highland ave.	900	1897
ENGLISH HIGH SCHOOL.			
CHARLES T. C. WHITCOMB, Head Master,	12 Highland ave.	3,000	1895
John A. Avery, Master,	68 Columbus ave.	1,800	1895
Everett W. Tuttle, Sub-Master,	Union Square Hotel.	1,700	1895
George J. Pfeiffer,	80 Bartlett ave., Arlington.	1,400	1898
Fred O. Small,	45 Vinal ave.	1,460	1899
William I. Corthell,	20 Madison st.	1,300	1899
Harry L. Jones,	157 Highland ave.	1,300	1896
Howard W. Poor,	34 Bow st.	1,300	1896
A. Marion Merrill,	62 Highland ave.	1,200	1895
Mary P. Anderson,	4 Grand View ave.	900	1895
Esther Bailey,	1172 Massachusetts ave., Arlington.	900	1894
A. Laura Batt,	62 Highland ave.	900	1895
M. Jessamine Dixon,	122 Orchard st.	1,200	1895
Mary P. Hitchcock,	39 Cedar st.	900	1895
Lucy Ingram,	4 Grand View ave.	900	1894
Carrie A. Marsh,	4 Grand View ave.	900	1895
Eda L. Nichols,	54 Vinal ave.	900	1895
Maria B. Smith,	14 Spring Hill terrace.	1,000	1894
M. Helen Teele,	23 Central st., Arlington.	900	1895
Susie L. Sanborn,	18 Stickney ave.	900	1896
Laura A. Davis,	The Caldwell, Arlington.	900	1897
Clara A. Johnson,	177 Central st.	900	1897
Mary F. Carrick,	27 Belvidere st., Boston.	900	1898
Etta A. Seaver,	62 Highland ave.	850	1898
Bertha P. Marvel,	13 Greenville st.	800	1899
Hila Helen Small,	248-A Highland ave.	850	1899
Harriet E. Tuell,	54 Putnam st.	900	1899
Bessie L. Forbes,	92 Orchard st.	400	1899
STUDENT TEACHERS.			
Susie R. Knox,	85 Dexter st., Malden.		
Susanna B. Harrington,	47 Cedar st.		
F. Lydia Grant,	73 Cherry st., Waltham.		
Fredrika Moore,	7 Irving terrace, Cambridge.		

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
PRESCOTT.				
9	SAMUEL A. JOHNSON, Master,	91 Perkins st.	\$1,900	1893
9	Anna M. Bates,	102 Bridge st., Salem.	700	1874
8	Elizabeth M. Warren,	92 Myrtle st.	600	1897
7	Emma M. Cate,	13 Arlington st.	600	1882
6	Abbie A. Anderson,	1 Pearl st.	600	1878
6	Amelia I. Sears,	Melrose.	600	1873
5	Susie M. Hosmer,	Wakefield.	600	1899
5	Catherine T. Brown,	61 Myrtle st.	600	1868
4	Clara Taylor,	36 Flint st.	600	1871
3	Elizabeth L. Marvin,	94 Huntington ave., Boston.	600	1898
2	Louise E. Pratt,	49 Myrtle st.	600	1889
1	Minerva L. Mills,	170 Pearl st.	600	1897
1	Mattie L. Littlefield,	65 Glen st.	600	1897
SANFORD HANSCOM.				
4	LINA F. BATES, Principal,	148 Broadway.	\$725	1897
3	P. M. Pigeon,	31 Warren ave.	600	1897
2	Elsie B. Porter,	Saugus.	600	1899
1	Helen G. Frye,	43 Sargent ave.	600	1898
1	Lina E. Dill,	18 Batavia st., Boston.	600	1897
K'g'n	Caroline Boardman,	231 Dartmouth st., Boston.	600	1897
Ass't	Josephine M. Kimball,	33 Warren ave.	425	1897
DAVIS.				
4	FRANCES MELDRUM, Principal,	6 Highland ave.	\$675	1896
3	Mary A. Holt,	116 Pearl st.	600	1899
2	Carrie T. Lincoln,	41-B Franklin st.	600	1893
1	P. A. Merritt,	96 Oxford st.	600	1885
EDGERLY.				
9	CHARLES E. BRAINARD, Master,	113 Glen st.	\$1 900	1889
9	M. Eva Warren,	29 Evergreen ave.	675	1898
8	Annie L. Dimpsey,	11 Forster st.	600	1891
8	Helen E. Blaisdell,	72 Rush st.	600	1898
7	Mary E. Richardson,	224 Broadway.	600	1893
7	Mabel C. Mansfield,	224 Broadway.	600	1893
6	Isabelle M. Gray,	23 Webster st.	600	1897
5, 6	Harriet F. Roxbury,	70 Glen st.	600	1897
5	Mary E. Coyle,	70 Glen st.	600	1898
4	Maria A. True,	116 Pearl st.	600	1895
3	Fannie G. Holt,	35 Mt. Vernon st.	600	1899
2	Lillian Nealley,	109 Glen st.	600	1882
1	Martha M. Power,	37 Gleason st., West Medford.	600	1891
BINGHAM.				
6	HARRY F. HATHAWAY, Principal,	31 Vinal ave.	\$1,000	1890
Ass't	Carrie F. Hathaway,	31 Vinal ave.	360	
5	Elizabeth J. O'Neil,	505 Broadway.	600	1894
4, 3	Harriet F. Ward,	87 Sycamore st.	600	1895
3	Mabel E. Perry,	147 Sycamore st.	600	1896
2	Ida M. Kimball,	505 Broadway.	600	1899
2	Rose O'Loughlin,	Stoneham.	600	1896
1	Nellie R. Bray,	11 Bradley st.	600	1898
1	Mabel E. Mansir,	77 Albion st.	600	1891

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
	LUTHER V. BELL.			
9	HARLAN P. KNIGHT, Master,	37 Stone ave.	\$1,800	1897
9	Alice L. Davis,	6 Highland ave.	675	1895
8	Mary F. Lyman,	67 Columbus ave.	600	1898
7	Nellie S. Dickey,	20 Spring Hill ter.	600	1889
7	Grace E. Weeks,	23 Putnam st.	600	1899
6	Mabel T. Totman,	11½ Sanborn ave.	600	1892
6	Maribelle Curtis,	23 Putnam st.	600	1895
5	Emma F. Schuch,	25 Tufts st.	600	1874
5	Ada F. Fernald,	12 Miner st.	650	1893
4	Ella H. Bucknam,	10 Putnam st.	600	1897
3	Edith J. Holden,	25 Lowell st., Reading.	600	1893
2	Martha E. Daniels,	93 Concord ave.	600	1891
1	E. Lorette Schuch,	25 Tufts st.	600	1882
	BENNETT.			
3	AGNES S. CAMPBELL, Principal,	67 Columbus ave.	\$675	1899
2	Kathryn C. Connolly,	18 Quincy st.	600	1897
1	Miriam Cavanagh,	10 Grand View ave.	600	1893
1	Carrie L. Bliss,	308-R Elm st.	600	1899
	CHARLES G. POPE.			
9	GEORGE M. WADSWORTH, Master,	23 Munroe st.	\$1,900	1891
9	Florence A. Chaney,	12 St. James ave., Boston.	675	1892
8	Harriet M. Clark,	10 Vernon st., West Medford.	600	1893
7, 8	Alice I. Norcross.	26 Russell ave., Watertown.	600	1885
7	Eleanor M. Varney,	27½ Boston st.	600	1897
6	Blanche G. North,	8 High st.	600	1893
6	Minnie A. Blood,	10 Putnam st.	600	1897
5	Lizzie W. Parkhurst,	22 Highland ave.	600	1885
5	Susan G. Meldrum,	6 Highland ave.	600	1896
4	Annie G. Sheridan,	84 Prospect st.	600	1886
3	Lillian C. Albee,	42 Walnut st.	600	1888
2	Florence E. Locke,	9 Prospect Hill ave.	600	1898
1	Ella M. Robinson,	18 Stickney ave.	600	1899
	CUMMINGS.			
4	LYDIA J. PAGE, Principal,	21 Webster ave.	\$675	1869
3	Fannie L. Gwynn,	65 School st.	600	1886
2	Angeline Cann,	Wakefield.	600	1897
1	Elizabeth L. Hersey,	31 Union pk., Boston.	600	1897
	HIGHLAND.			
9	GEORGE E. NICHOLS, Master,	26 Loring st.	\$1,900	1877
9	M. Alice Paul,	122 Orchard st.	675	1879
8	Mabel A. Jepson,	232 Elm st.	600	1892
8	S. Adelaide Blood,	Washington st., Ayer.	600	1882
7	Cora B. Wheeler,	39 Chester st.	600	1896
7	Grace M. Clark,	10 Vernon st., West Medford.	600	1893
6	Jennie C. Frazier,	56 River st., Boston.	600	1887
5	Sarah E. Pray,	28 Quincy st.	600	1878
4	Mary H. Joyce,	76 Boston st.	600	1891
3	Mary E. Cunningham,	16 Orchard st.	600	1899
3	Alice T. McNamara,	34 Newbury st., Boston.	600	1895
1	Katherine E. Hourahan,	12 Grove st.	600	1892

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
FORSTER.				
9	FRED C. BALDWIN, Master,	25 Browning road.	\$1,900	1893
9	Mary E. Bunton,	13 Lee st.	675	1894
8	Irena S. Nightingale,	14 Court st., Arlington.	675	1895
8	Fanny E. Jennison,	23 Ames st.	600	1896
7	Sarah L. Copeland,	23 Ames st.	600	1896
6, 7	Louise B. Hardv,	7-A Tennyson st.	600	1898
6	Elizabeth F. Clement,	29 Kidder ave.	600	1884
6	Mary C. Strange,	Stoneham.	600	1899
5	Lucy K. Hatch,	10 Ames st.	600	1892
5	A. Gertrude Dean,	14 Stickney ave.	600	1899
5	Jo Winslow King,	106 Brooks st., West Medford.	600	1899
4	Elizabeth S. Brown,	9 Parker st., Chelsea.	600	1897
3, 4	May I. Bradish.	Medford.	600	1899
3	Maud L. Kent,	18 Maple ave.	600	1893
2	Annie S. Gage.	32 Marshall st.	600	1883
2	E. Mina Smith,	19 Westminster st.	600	1896
1	Grace Shorey.	23 Forster st.	600	1892
1	Mrs. Mary J. Richardson,	151 West Canton st., Boston.	600	1895
GEORGE W. DURELL.				
4	NORA F. BYARD, Principal,	248 Summer st.	\$675	1884
3	Maud M. Brackett,	16 Howland st., Cambridge.	600	1899
2	Edith L. Hunnewell,	23 Milton st.	600	1894
1	Mary Winslow,	38 Spring st.	600	1893
JACKSON.				
4	ANNIE E. McCARTY, Principal,	21 Kingman ct.	\$675	1880
2, 3	Isadore E. Taylor,	36 Flint st.	600	1883
1	Annie L. Savage,	135 Antrim st., Cambridge.	600	1873
K'g'n	Caroline G. Baker,	46 Washington st., Charlestown.	600	1895
Ass't	Ida F. Whitney,	69 Gilman st.	350	1899
OREN S. KNAPP.				
9	JOHN S. EMERSON, Master,	95 Summer st.	\$1,900	1894
9	Abby C. Hunt,	14 Aldersey st.	675	1873
7, 8	Emma Frye,	6 Hillside park.	600	1891
7	C. B. Parkhurst,	22 Highland ave.	600	1889
	Mary E. Stearns,	29 Warren ave.	600	1899
6	Clara B. Sackett,	31 Warren ave.	600	1891
5	Cora F. Taylor,	28 Tudor st., Chelsea.	600	1896
4, 5	Edith Hersey,	Chelsea.	600	1899
4	Annie E. Robinson,	20 Webster ave.	600	1876
3	Abbie A. Gurney,	22 Bonner ave.	600	1888
2	Minnie Alice Perry,	16 Pleasant ave.	600	1893
3, 2	L. Gertrude Allen,	230 Washington st.	600	1884
1	Lucia Alger,	22 Bonner ave.	600	1889
1	Charlotte Holmes,	59 Bow st.	600	1899
PROSPECT HILL.				
4	HELEN TINCKER, Principal,	63 Columbus ave.	\$725	1872
3	Frances A. Wilder,	36 Walnut st.	600	1874
2	Kate L. Wheeler,	39 Chester st.	600	1897
1	Sarah I. Beard,	454-A Medford st.	600	1895
K'g'n	Blanche Seabury,	180 Huntington ave., Boston.	600	1892
Ass't	H. Gertrude Edgerly,	220 Medford st.	425	1897

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.—Continued.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
	JACOB T. GLINES.			
9	MARY E. NORTHUP, Master,	181 Central st.	\$1,900	1878
9	Mary E. Stiles,	181 Central st.	675	1883
8	Mary G. Woodman,	Arlington.	600	1899
7	Nellie E. Briggs,	16 Winter Hill Circle.	600	1898
6	Ellen A. Boynton,	15 Evergreen ave.	600	1891
5	M. Frances Guptill,	75 Franklin st., Melrose Highlands.	600	1869
5	Margaret A. Orr,	148 Warren ave., Boston.	600	1891
4	Mary A. Goddard,	9 Winter Hill Circle.	600	1893
3	Anna G. Welch,	324 Main st., Stoneham.	600	1897
3	Florence E. Baxter,	49 Hudson st.	600	1891
2	Flora B. Rice,	15 Evergreen ave.	600	1895
2	Carrie Armitage,	57 Madison st.	500	1899
1	Belle J. Tiftt,	7 Lee st.	600	1892
1	Ida M. Record,	6 Highland ave.	500	1899
K'g'n	Mrs. Etta D. Ellsworth,	112 Newbury st., Boston.	600	1897
Ass't	Emma E. Norcross,	60 Marshall st.	425	1899
	MORSE.			
9	MINA J. WENDELL, Master,	211-A Summer st.	\$1,900	1882
9	Emily J. Gifford,	48 Quincy st.	600	1895
8	P. S. Downes,	30 Wallace st.	600	1872
7	Alice E. Jones,	53 Laurel st.	600	1897
7	Lennie W. Bartlett,	14 Davenport st., No. Cambridge.	600	1893
6	Anna E. Sawyer,	26 Bow st.	600	1872
5	Kara M. Johnson,	13 Summer st., Cambridge.	600	1897
5	Lizzie E. Hill,	100 Porter st.	600	1891
4	Anna C. Damon,	53 Laurel st.	600	1879
3	Helen M. Mead,	100 Porter st.	650	1893
2	Ella P. McLeod,	6 Summer st.	600	1888
1	Ardelle Abbott,	71 Craigie st.	600	1897
1	Alice M. Emerson,	146 Highland ave.	600	1891
	MARTIN W. CARR.			
9	CHARLES G. HAM, Master,	21 Harvard st.	\$1,900	1898
9	Blanche E. Townsend,	53 Laurel st.	675	1898
8	Anne E. Bragdon,	21 Harvard st.	600	1898
7	Jennie E. Sutherland,	21 Warren ave.	600	1898
7	Harriet A. Hills,	41 Belmont st.	600	1874
6	Marie T. Smith,	33 Chester st.	600	1898
6	Marion P. Crawford,	53 Laurel st.	600	1897
5	Susie L. Luce,	23 Wigglesworth st.	600	1896
5	Mary A. Haley,	117 Summer st.	600	1867
4	Mabel A. Mann,	88 Chelsea st., Everett.	600	1898
3	Florence B. Howland,	56 Boston st.	600	1897
4	Charlotte M. Jepson,	Watertown.	600	1898
2	Bessie A. Dadmun,	48 Oxford st.	600	1897
1, 2	Elizabeth S. Foster, Critic Teacher,	53 Laurel st.	750	1895
Ass't	Ethel F. Morang,	10 Fairlee st.	500	1898
"	Martha E. Hale,	144 Highland ave.	200	1899
K'g'n	Gertrude Friend,	33 Wallace st.	600	1893
"	Etta M. Cushing,	3 Thurston st.	425	1896
	PERRY.			
5	LAURA B. UNDERHILL, Principal,	48 Flint st.	\$725	1899
4	Florence M. Marshall,	184 Harvard st., Cambridge.	600	1899
3	Mrs. M. B. McKusick,	1904 Massachusetts ave.	600	1897
2	Emma F. Bradley,	7 Buckingham st.	600	1896
2, 1	Grace B. Tibbetts,	9 Miller ave., Cambridge.	600	1890
1	Erminnie A. French,	Waltham.	600	1898

TABLE 30.—TEACHERS IN SERVICE DECEMBER, 1899.—Concluded.

Grade.	NAME.	Residence.	Salary.	Beginning of Service.
BURNS.				
5	LAURA J. BROOKS, Principal,	31 Stevens st., Stoneham.	\$700	1883
4	Elizabeth A. Davies,	37 Meacham st.	600	1893
3	Minnie S. Turner,	153 Lowell st.	600	1885
3, 2	A. L. Brown,	281 Summer st.	600	1885
2	Mary E. Lacy	63 Cherry st.	600	1890
2	Amy W. Freeman,	49 Marshall st.	500	1899
1	Florence M. Hamlin,	128 Orchard st.	600	1889
1	Alice A. Beckwith,	13 Brastow ave.	600	1897
LINCOLN.				
4	J. LOUISE SMITH, Principal,	36 Hamilton ave., Lynn.	\$675	1896
3	Charlotte F. Mott,	86 Charles st., Boston.	600	1886
2	Martha A. Jencks,	2 Kenwood st.	600	1899
1	Eliza H. Lunt,	50 Curtis st.	600	1890
WM. H. HODGKINS.				
9	ARTHUR L. DOE, Master,	83 Chandler st.	\$1,900	1896
9	Alice M. Winslow,	53 Chester st.	675	1896
8	Edith W. Emerson,	Arlington.	600	1896
7	Alice S. Hall,	Arlington.	600	1896
6	Mrs. Gertrude W. Leighton,	Jay st.	600	1896
6	Berthe M. Jones,	54 Paulina st.	600	1894
5	Flora A. Burgess,	183 Ash st., Waltham.	600	1894
5	Mrs. N. Agnes White,	53 Chester st.	600	1896
4	Helen A. Wooster,	37 Meacham st.	600	1898
3	Katherine M. Fox,	53 Chester st.	600	1896
2	Ida May Pettee,	53 Chester st.	600	1899
1	Mrs. Marion I. Noyes,	16 Winter st.	600	1896
1	Almena J. Mansir,	77 Albion st.	500	1899
SPECIAL TEACHERS.				
MUSIC.				
9-7	S. Henry Hadley, 4 days,	46 Pearl st.	\$1,500	1869
6-1	Charlotte D. Lawton, 5 days,	60 Bow st.	900	1898
DRAWING.				
9-1	Mary L. Patrick,	Newtonville.	\$1,000	1895
SEWING.				
8-5	Mary L. Boyd,	432 Medford st.	\$600	1888
8-5	Sarah I. Stanton,	211 Summer st.	600	1895
Ass't	Georgie E. Platt,	Cliftondale.	500	1899
PENMANSHIP.				
9-1	Wm. A. Whitehouse,	94 Summer st.	\$1,200	1895

TABLE 31.—OFFICERS IN SERVICE DECEMBER, 1899.

NAME.	Residence.	Salary.	Beginning of Service.
SUPERINTENDENT. Gordon A. Southworth,	40 Greenville st.	\$3,000	1893
CLERK. Eleanor L. Hannay,	273 Medford st.	\$650	1897
TRUANT OFFICERS. Lemuel H. Snow, Jairus Mann,	81 Benton ave. 80 Porter st.	\$1,000 50	1886 1872

TABLE 32.—SCHOOL JANITORS, DECEMBER, 1899.

SCHOOL.	Name.	Residence.	Salary.
Latin High, S .	Joseph Young.	51 Oxford St.	\$1,000 00
English High, S	H. B. Sellon.	9 Stickney Ave.	1,200 00
Prescott, S, 12 .	Frederick A. Mansfield.	50 Pearl St.	830 00
Edgerly, S, 12 .	David G. Marston.	20 Everett Ave.	830 00
Davis, F, 4 . .	N. L. Pennock.	54 Putnam St.	320 00
Bell, S, 12 . .	F. S. Dickinson.	1 Putnam St.	830 00
Cummings, F, 4	William T. Higgins.	1 Avon St.	315 00
Knapp, S & F, 13	Bernard F. Sheridan.	84 Prospect St.	830 00
Pope, F, 12 .	Hiram A. Turner.	16 Gibbens St.	830 00
Prospect Hill, F, 6 . . .	Edward T. Peterson.	18 Stone Ave.	420 00
Bennett, St., 4 .	Alfred Shiner.	Schoolhouse.	165 00
Jackson, St., 4 .	Albert Shiner.	Schoolhouse.	174 00
Forster, S, 13 .	James L. Whitaker.	146-R Sycamore St.	865 00
Glines, S, 14 .	Roy C. Burckes.	249 School St.	950 00
Bingham, S, 8 .	John F. O'Brien.	5 Richardson St.	500 00
Morse, F, 12 .	Charles Gale.	10 Brastow Ave.	830 00
Durell, S, 4 . .	John C. Sampson.	64 Flint St.	480 00
Burns, S, 4 . .	Charles Weston.	23 Conwell St.	500 00
Highland, F, 12	E. P. Cook.	241 Elm St.	770 00
Lincoln, S, 4 . .	E. S. Haradon.	29 Claremon St.	480 00
Hodgkins, S, 12	Andrew B. Colesworthy.	35½ Day St.	890 00
Hanscom, S, 6 .	Albert Gilman.	44 Lake St.	480 00
Carr, S, 15 . .	James W. Rich.	206 Highland Ave.	1,080 00
Perry, S, 6 . .	Frank Miller.	School St.	600 00

Buildings heated by steam are marked "S," by furnace "F," by stove "St." The numbers show the number of rooms.

The high schools are heated by a single plant in Latin building.

PUBLIC LIBRARY.

Board of Trustees and Officers

OF THE SOMERVILLE PUBLIC LIBRARY, YEAR ENDING DECEMBER 31, 1899.

Trustees.

CHARLES S. LINCOLN.	EDWARD C. BOOTH, M. D.
CHRISTOPHER E. RYMES.	GEORGE W. PERKINS.
CHARLES H. BROWN.	JOHN B. VIALI.
CHARLES A. WEST.	J. FRANK WELLINGTON.
CHARLES W. SAWYER.	

Officers.

CHARLES S. LINCOLN	. . . . .	President.
SAM WALTER FOSS	. . . . .	Secretary.

Committees.

Building and Grounds.—Rymes, Viall, and Brown.
Administration.—Wellington, Sawyer, and Perkins.
Books and Catalogues.—Lincoln, ex-officio, Rymes, Viall, Brown, West,
and Booth.
Finance.—Sawyer, Wellington, and Perkins.

Librarian.

SAM WALTER FOSS.

Assistant Librarian.

ADELE SMITH.

Cataloguer.

F. MABEL NORCROSS.

Assistants.

ANNA L. STONE.	MARY S. WOODMAN.
MARY J. WARREN.	EDITH B. HAYES.
ESTHER M. MAYHEW.	FLORENCE D. HURTER.
MABEL E. BUNKER.	F. EDWARD KAULA.
AUBREY A. HILLS.	

Janitor.

CHARLES A. SOUTHWICK.

REPORT OF THE TRUSTEES.

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville:—

Gentlemen,—The annual report of the Trustees of the Public Library is herewith respectfully submitted.

The Library, during the last year, has continued its work on the same general lines as those of the preceding year, and, in spite of annoyances to patrons and attendants incidental to the close proximity of carpenters and masons, with an increased measure of success.

Naturally, the enlargement of the Library building is the most important and interesting topic of the present year. The appropriation for building an addition to the Library building was voted by the City Council on January 10; on April 11 the Trustees met with the Public Property Committee of the City Council and the Superintendent of Public Buildings, when plans for the projected work were examined, explained, and discussed. Early in July the excavation was finished and the cellar walls were well under way. Since then the construction has steadily progressed, till there is now a reasonable expectation that the added wing will be ready by March to receive the necessary furniture and fittings. By this addition the capacity of the Library will be doubled, and it may be incidentally remarked that the building itself already presents a more substantial and imposing appearance than before.

For an understanding of the operations of the Library for the last year, reference is made to the report of the Librarian, which is appended to the Trustees' report, and made a part of it. Here will be found in detail the statistics of the Library as to circulation, the number and condition of its books, and the nature and extent of the work done, together with recommendations aiming at a greater efficiency of the institution, which are in general accord with the policy of the Trustees.

It will be further observed that the Library has reached a greater number of readers than ever before, and this, in spite of the unavoidable annoyances of dust, noise, and encroachment on the working space of the building, and a decreased leisure of the people, owing to the general revival of business. The circulation of the Library is, at present, greater than that of any other city in the Commonwealth, except Boston, which betokens a highly satisfactory diffusion of intelligence throughout the community. Although this proportionately large use of the Public Library may be owing, in some degree, to the nearness of our city and its free accessibility in every part to a great metropolis, which

largely determines the class of our citizens and the general nature of their pursuits, it is undoubtedly, in a large measure, owing to the hearty co-operation of the Library with the schools that this circulation has grown out of all proportion to the size of the institution and the population of the city. If in half a dozen years something substantial has been effected by these methods, how much greater results may be accomplished by a more highly perfected co-operation between these two educational institutions! Special libraries of twenty-five volumes have been supplied to eighty-five schoolrooms; 132 yet remain unsupplied. It is the wish of the Trustees that practically all of these 132 rooms shall likewise receive the loan of these libraries, or, at least, have the opportunity of receiving them. It is the wish of the Trustees, by means of these libraries, to furnish teachers with plenty of good, suitable reading material, which may be placed before the pupils in a way that shall be of the most benefit at the formative period of the child's life. Thus, by the willing and intelligent co-operation of the teacher, the Library can best lend a helping hand to the young when it is most needed. If the child has access to the best literature, and receives from his teacher, who has presumably gained an insight into his mind, and is often the one best fitted to give direction to it, some help in what to read, in the method of reading, in forming habits of due reflection on what is read,—guarding against the morbid habit of aimless and excessive reading, which occasioned the significant remark of Bishop Butler, endorsed by Matthew Arnold, that “really, in general, no part of our time is more idly spent than the time spent in reading,”—substantial and far-reaching results have already been accomplished. Some such instruction regarding books and how to use works of reference at this period, of all ways, furnishes the greatest likelihood that the child will acquire a taste for good reading, carry it through life, and in turn impart it to those who come after him. If the result of good reading is to make a man broader and better fitted for the duties of life, the value of such a relation between the Library and the schools cannot be overestimated. In this connection the Trustees wish to express their appreciation of the hearty co-operation of the Superintendent and the teachers of the public schools in this branch of the Library's work.

The children's department was continued with encouraging results till the necessities of the building operations rendered further use of the room impracticable.

The Sunday opportunities of the Library have been also curtailed for the same reason.

A musical department was established in the spring by the purchase of books of standard music and the better popular music of the day. In the selection of this collection the Library is much indebted to S. Henry Hadley, teacher of music in the public schools. This department has already fulfilled the favorable expectations as to its success.

In presenting the needs of the Library for the coming year, as required by charter, the Trustees are confronted by the unpleasant duty of asking for a considerably larger appropriation than has hitherto been granted for the maintenance of the Library. Owing to the sharp advance in the price of nearly all building materials between the time of the 'Trustees' estimate of the cost of the addition and the time of giving out the contract, the appropriation voted by the City Council has been found insufficient to complete the work designed. Consequently, the finishing of the new stackroom is still unprovided for.

No appropriation was asked for last year for furnishing the new wing, but it is obvious that such an appropriation will become a necessity this year if library work is to be carried on in the new part. The Trustees estimate the cost of the required furniture and fittings at about \$3,000.

It has been elsewhere observed that the capacity of the Library will be practically doubled with the completion of the new addition. This increased accommodation will entail a considerable increase in the regular current expenses of the year. More light, more heat, more insurance, and more salaries will be required. To these increased current expenses and the cost of furniture for the new wing should be added the cost of the small libraries for the unsupplied schools, the expense of evening opening of the Library, which is clearly demanded for at least a part of the year, and the expense attending the preparation of the card catalogue, with its 150,000 cards,—a work which, with some extra help, may be ready for casing before the close of another year. All these unusual sources of expense, the Trustees feel, should be fully laid before Your Honor and your Honorable Board for your appreciation and consideration.

A comparison of the financial resources of our Library with those of other cities in the Commonwealth has shown that, while our Library carries on a business notably larger than the average, it has a very considerably smaller sum than the average with which to carry on that business. This institution is as yet without the considerable endowments of many other public libraries, but we live in hope that there may be found among our generous, public-spirited citizens some who will recognize the high importance of the mission of the modern library, and add to the number of our invested funds, which at present are limited to the single benefaction of Mrs. Harriet Minot Laughlin.

The Trustees are glad to testify to the intelligent zeal and sympathetic spirit displayed by the Librarian in his new profession, and to the faithfulness and enthusiasm and the noticeable spirit of helpfulness and harmony prevailing among his assistants.

Respectfully submitted for the Board of Trustees,

CHARLES S. LINCOLN, President.

December 31, 1899.

REPORT OF THE LIBRARIAN.

To the Trustees of the Somerville Public Library:—

I herewith submit the Librarian's twenty-seventh annual report.

The business of the Library during the past year, considering the interruptions to which we have been subjected, incident to the erection of the new annex, has gone forward with about its usual ratio of increase. The exact circulation of the Library and its branches is herewith appended:—

Circulation.

Total home circulation		215,448
West Somerville agency	20,003	
East Somerville agency	8,069	
South Somerville agency	5,047	
North Somerville agency	1,198	
Grammar Schools	7,387	
Special libraries, including high schools	32,040	
Percentage of fiction taken out	66.2	
“ “ other works taken out	33.8	

Books Withdrawn.

Number of books worn out	367	
“ “ “ lost by general readers	23	
“ “ “ “ in schools	2	
“ burned on account of infectious exposure	9	
Total number withdrawn	401	
Total number of books withdrawn to January, 1899		3,591
“ “ “ “ “ during 1899		401
Total		3,992

Books Added.

Accession number, January 1, 1899	44,308
“ “ January 1, 1900	47,423
Total number of books added during 1899	3,115
Books new to the library	2,593
Duplicates	522
Total number withdrawn	3,992
Total number of books in the library	43,431

Visitors in Reference and Reading Room.

January	1,900
February	1,629
March	2,036
April	1,670
May	1,376
June	1,029
July	916
August	879
September	1,642
October	1,964
November	2,442
December	2,251
Total	19,734

Binding.

Volumes rebound	1,849
Periodicals bound	218
Paper-covered books bound	28
Pamphlets	21
Total	<hr/> 2,116

Card Catalogue.

The work on our new card catalogue is being pushed to the full extent of our facilities. Already the fiction and biography are completed, and a good start has been made upon the history. In all, about 40,000 cards have been written. The process is a slow one, and one that, from the nature of the case, must be done with great care and exactness. As large a portion of the force of the Library as can be spared from other duties are engaged constantly upon this work. It is progressing with all possible rapidity.

The Library and the Schools.

During the past year we have sent to the schools 7,387 volumes to be taken out by the pupils on cards; and the circulation of our special libraries in the schools has been 32,040. It will be seen that there has been a decided increase in the circulation of these school libraries. I am becoming convinced that it is through the agency of these libraries that we can help the schools more than by any other method. In fact, it is about as near an ideal way of getting good literature before the young as has yet been devised. Select libraries of books best fitted for the years and requirements of their readers, under the oversight of competent teachers, are by this method placed within the reach of boys and girls in their most susceptible and formative years. The statement sounds incredible, but yet it has been demonstrated, that these special libraries in the schools furnish a large number of our boys and girls with the only books they ever see. Before this system of putting these special libraries in the schools was inaugurated, the principal of one of our large grammar schools made a careful canvass of his various rooms, with a view to discovering how many of his pupils were readers of books. He learned by this canvass the really astounding fact that from twelve to sixteen pupils in each room had never read a book. Outside the text-books handled in the schoolroom, these pupils were as absolutely bookless as the aborigines of America. This state of affairs shows that, in spite of the vast amounts of money spent on schools and libraries, an alarming percentage of the people remain practically illiterate. To reduce this percentage to the lowest possible figure is the urgent business of the Public Library. And I know no better way that this can be done than by

furnishing all the schools with these well-selected libraries, which the children use with great eagerness and with great intellectual improvement to themselves.

Some effort has been made during the past year to discover to how wide an extent the Library is known in the community. Through the courtesy of an enterprising and enthusiastic lady, a limited portion of the city was canvassed, and application blanks were offered the people, and incidentally many questions were tactfully asked. By this means, and by much indirect information that has come to us, I have every reason to believe that there are still a certain number of people within the limits of the city who do not know that there is a library here. There are many others who may know, in a vague way, of the existence of the Library who are uncertain of its location, and who never visit it. There are some who do not use the Library because they do not understand the process of taking out a card, or how to use the catalogue and finding list. A little instruction in the schools as to such points as these might be of material help. There are still some who have the impression that the Library is not a free library, and that pay is exacted for the books. There is even now a small remnant of people who still cherish the fear that reading is dangerous, and that a library exerts a pernicious influence in the community. It has been my impression that all such people as the above might be reached by a personal canvass. But this would be expensive, and might, in some instances, give serious offense. Perhaps the best method, after all, to reach them is by way of the younger generation and through the schools. The children in the schools, I am told, eagerly use these special libraries, take home the books to their parents, and the instances are many where the parents themselves become interested in the books, and urge their children to bring home more of them. Here, it would seem, is one of the most practicable ways of getting the books of the Library before the people.

I am very glad to report that we have been able to supply the demands of the teachers the present year with much more fullness and promptitude than in previous years. It is now known approximately what books the teachers will request, and these books have been gradually purchased, from time to time, so that the present supply is equal to the present demand. I hope that it is not equal to the future demand, and that the increasing interest of teachers in this method of disseminating literature will create a necessity for a much larger equipment on our part in the future.

We have been supplying, as a rule, twenty-five books to a room. I believe that each room should be furnished with at least one book for every pupil. Although many of the teachers have availed themselves of these special library privileges, there is still a larger number that has not done so. There are at present in the grades below the high schools 217 teachers. Only eighty-

five teachers out of these 217 have, as yet, applied for these special libraries, leaving a balance of 132 teachers whose rooms have no library books. The rapidly-growing interest of the teachers in these libraries, however, leads me to infer that practically all of them will eventually desire this privilege; and it should be our aim to be sufficiently well-equipped to supply the demand the moment it begins to exist. The Library notes with gratification the growing tendency of the pupils of the schools to visit the Library and draw upon its resources. The Library staff, personally, exerts every effort their limit of time will permit to help the school pupils in their studies, to assist them in their reference work, and to point out to them the proper sources of information. Special lists of books suitable to the different grades are being published from month to month in our bulletins. Teachers have been personally asked to send their pupils to the Library for assistance and consultation; and it is the aim of the Library to give such pupils such a reception that the most shy and timid will be encouraged to come again.

A Reading Committee.

A reading committee, consisting largely of competent and intelligent women, has been organized during the past few months to read the new novels before their admission to the Library. This work is performed by the committee gratuitously. Although the decisions of this committee will not always be accepted as absolutely final, their judgment of a book deserves weighty consideration. This reading committee was organized simply because time will not permit the Librarian to read the new novels purchased, and it is somewhat unsafe to put in modern novels indiscriminately without previously reading them. A rigid and narrow censorship is not the purpose of this committee, and a wide and liberal latitude, with an eye to the limitless diversities of human tastes, should be exercised in the choice of a public collection of books. Neither a prudish squeamishness nor a finical fastidiousness should determine such choice. But when there are novels published that are grossly indecent, and novels that are insufferably dull, a weeding-out process is a salutary thing. It is worth while to take some pains, when our purchasing power is so limited, to buy good novels rather than bad ones. And it was solely to further this design that this reading committee was organized.

Gifts.

The Library has received the following donations of books, pamphlets, and periodicals during the past year:—

LIST OF DONATIONS.

	Vols.	Pamph.	Period.
American Cultivator			27
American Swedenborg Society	2		
Amherst College		1	
Anderson, Rev. G. S.		1	
Atlanta, Georgia		1	
Bennett, Col. E. C.		1	
Bisbee, Rev. C. E.	113	4	
Book Reviews			18
Booth, Dr. E. C.	81		
Boston City Hospital		1	
Boston Transit Commission	1		
Bostonian Society	1		
Brooks, E. S.	4		
Cambridge (Mass.) Congregational Church	1		
Canfield, Mrs. A. K.	9		
Chicago Educational Commission	1		
Christian Register			52
Christian Science Journal			12
Christian Science Sentinel			52
Cone, Joe	1		
Colorado (State) Normal School		1	
Conant, Mrs. S. P.	2		
Cook's Excursionist			12
Creighton, Mrs. H. R.	11	1	
Davis, Walter A.	1		
Dawson, Howard	1		
Depew, Chauncey M.	1	1	
Elliot, C. D.	6		
Food, Home, and Garden			12
Foss, Sam Walter	2		
Foss, Saxton C.	1		
Foster, W. H.	50		
Gleaner			10
Goldsmith, B. W.	8		
Gosse, George H.	1		
Hackett, C. C.	1		
Harvard University	1		
Helper			12
Hersey, Hattie B.	1		
Hoar, G. F.		1	
Home Market Bulletin			4
Houghton, Mifflin, & Co.	2		
Human Alliance			6
Journal of Orthoepey and Orthography			1
Kaan, Frances W.	4		
Land of Sunshine			12
Lee & Shepard	1		
Lexington, Mass.	1		
Life and Light for Women			12
Lincoln, G. A.	10		
Literary News			12
Lord, Annie S.	1		
Loring, G. F.		1	
McDonald, Arthur	1	1	
Carried forward	321	15	254

List of Donations. — Continued.

	Vols.	Pamph.	Period.
Brought forward	321	15	254
McQueen, Rev. Peter	2		
Manifesto			12
Mason, C. A.		1	
Massachusetts	11	2	
Massachusetts Agricultural College		3	
Massachusetts Institute of Technology		1	
Massachusetts New Church Union	1		
Massachusetts Volunteer Aid Association	1		
Maulsby, D. L.		1	
Mayflower Descendant			3
Mead, E. D.		1	
Mills, B. Fay	1		
Minneapolis, Minn.	1		
Moore, John		2	
New England Anti-Vivisection Society			19
New York (State) University	1	1	
Norcross, F. Mabel	1		
Pennsylvania, University of		1	
People			52
Public Libraries: —			
Allegheny, N. Y.		1	
Amesbury		1	
Baltimore, Md.		1	
Boston		2	10
Brockton		1	
Brookline		1	4
Brooklyn, N. Y.		1	
Cambridge		2	10
Chelsea		1	
Clerkenwell, London		1	
Clinton		1	
Concord		1	
Concord, N. H.		1	
Danvers (Peabody Institute)		1	
Dayton, Ohio		1	
Detroit, Mich.		1	
Everett		1	
Fall River		1	
Fitchburg			4
Hartford, Conn.		1	9
Jersey City, N. J.		1	4
Lancaster		1	
Lawrence		1	
Leicester		1	
Leominster		1	
Littleton (Reuben Hoar Library)		1	
Lowell		1	1
Lynn		1	8
Malden		1	
Manchester, N. H.		1	
Medford		1	
Melrose		1	
Carried forward	340	61	390

List of Donations. — Concluded.

	Vols.	Pamph.	Period.
Brought forward	340	61	390
Public Libraries (Continued): —			
Minneapolis, Minn.		1	
New Bedford		1	1
New Haven, Conn.	1	1	8
New York, N. Y.		1	12
Newark, N. J.		1	8
Newton		1	
North Adams		1	
Northampton		1	
Northampton (Forbes Library)		1	
Norwich, Conn. (Otis Library)			1
Paterson, N. J.			1
Peabody		1	
Philadelphia, Pa.		1	
Plymouth, Eng.		1	
Poughkeepsie		1	
Providence, R. I.			10
Quincy (Thomas Crane)		1	
Salem	1	1	10
San Francisco			10
Scranton, Pa.		1	2
Seattle, Wash.			3
Springfield		1	8
Syracuse, N. Y.		1	
Taunton		1	
Waltham		1	6
Watertown		1	
Winthrop		1	
Woburn		1	2
Worcester		1	
Public Opinion	1		
Pulsifer, W. E.	1		
Radiator			12
Red Cross Society		1	
Rogers, E. H.	1		
Sargent, Aaron	1		
Somerville, Mass.	2		
Somerville Journal			104
Taylor, C. F.		1	
Tead, Mrs. E. L.	54		
Tucker, Charlotte		1	
Tufts College		2	
Tuftonian			7
Tufts Weekly			33
United States	44	12	52
Wellington, J. F.	1		
Willis, C. W.	6		
Total	453	102	630

Recommendations.

I respectfully submit a few recommendations for your future consideration :—

While there is a steady increase in our yearly circulation, our monthly figures show there is a steady decrease in our summer circulation. The number of people who spend the summer months, or part of the summer months, out of town is increasing, and increasing very rapidly, from year to year. These people are no less citizens and residents of Somerville while they are out of town than when they are at home; and their right to the use of the Library is not set aside by their temporary absence. Besides, the vacation season is the especial time of year when they have the most leisure for reading. For these reasons, it seems to me, it would be well to have a special vacation card on which people could take out ten or perhaps a larger number of books for the period of one month, with the privilege of renewing by mail for a longer period. Such an arrangement, I think, would be greatly appreciated by the patrons of the Library, and would be entirely in line with our general policy of changing the regulations of the Library to suit the changing conditions of the people.

The Library's musical department, established last year, has been a popular innovation, and has already done something to foster the musical tastes of the community. This department should be increased by gradual purchases until it develops into a good working musical collection. In direct line with this departure I would recommend another. An art department in the same way should be gradually built up, from which the rapidly-increasing number of people interested in art may obtain engravings, prints, photographs, etc., on a regular reader's card as they now obtain books. The largely-increased attention given to such work in the public schools renders it desirable that the Library, as a helpful co-operator with the schools, should keep step in time with the new artistic activity.

It is to be hoped that the new annex will be completed early in the coming year. This, when entirely finished, will give the Library more than double its present capacity. In this annex I would suggest that there be established a good newspaper room, where the large dailies of the large cities and some of the representative weeklies can be consulted. Some paper, like the London Times, should also be on file, and possibly a representative French paper, and perhaps a Spanish paper, also.

In the reading room, on the first floor, I believe that the great representative books of the world, in all departments of human thought, should be arranged in shelves about the room, free of access to all who wish to consult them. Such a room should be organized on the same lines as Bates hall in the Boston Public Library, though necessarily, of course, on a much smaller scale.

In the art department of the new annex a sub-department devoted to art in the schools, I think, could be made a great incentive to the pupils of Somerville. It would be, I think, an excellent plan to have the prize pictures and drawings of the pupils of the public schools placed on exhibition in our art rooms. Let the pupils in each of the schools, or in each of the rooms, as the art teacher may decide, be told that the one whose drawing or picture is adjudged the best will have his work on exhibition in the Library art room, and a powerful incentive to art development will be exerted. Such an exhibition would gratify the pride of a pupil in our schools as much as it would gratify the pride of a professional artist to have his picture on exhibition in the Paris Salon, or in any of the great galleries of the great capitals. I believe, too, that the pictures of the professional Somerville artists (and there are some such that have attained distinction, and several of great promise) should be placed on exhibition from time to time. A loan exhibition of valuable paintings owned by residents of Somerville it may be possible to arrange as soon as it is made apparent that we have means of exhibiting them to advantage. The art department of the new Library should be one of its prominent features.

When the new annex is completed, I earnestly recommend that the Library be kept open evenings, with the exception of the summer months of July and August, when a Saturday evening opening will be sufficient.

When this annex is completed the Library will have facilities, as far as room is concerned, to develop into an institution that will be abreast of most other institutions in cities of an equal size. As a consequence, the expenses of the Library will be largely increased. An increase in our salary fund for extra attendants, a large increase in light and fuel bills, and a large increase in insurance will be imperative. The present appropriation of the city is \$9,000 a year. The appropriation for the maintenance of a building twice as large as the present one should, on a conservative estimate, be at least \$13,000. Even at this figure the Library would be run at a very much smaller outlay than other libraries of the Commonwealth that do a much smaller business than ours.

All the members of the Library staff still continue to perform their work with faithfulness and enthusiasm. I thank the members of your board for your kindness and co-operation.

Respectfully submitted,

SAM WALTER FOSS, Librarian.

PUBLIC LIBRARY ACCOUNT.

Receipts and Expenditures for 1899.

CREDIT.

Balance from 1898	\$7 40
Dog tax	2,052 86
Appropriation	9,000 00
Fines and catalogues	560 17
Interest on Pitman fund	107 92
	<hr/>
	\$11,728 35

DEBIT.

Books and periodicals	\$3,380 10
Binding	791 64
Cards	62 50
Printing	244 80
Stationery	13 60
Salaries	5,400 17
Agencies	178 43
Furniture	101 98
Repairs	111 26
Express	282 55
Electric lights	412 80
Gas	31 52
Water	10 64
Fuel	188 30
Postage	51 25
Telephone	55 57
Labor	71 93
Insurance	192 50
Supplies	46 94
Pictures	15 35
Disbursements	84 50
Balance carried to 1900	02
	<hr/>
	\$11,728 35

WATER DEPARTMENT.

Board of Water Commissioners, 1899.

GEORGE D. WEMYSS, President.

WILLIAM FRANKLIN HALL,	345 Broadway.
GEORGE D. WEMYSS,	29 Ames street.
GEORGE A. KIMBALL,	33 Warren avenue.

Superintendent of the Water Works and Clerk of the Board.

FRANK E. MERRILL.

Office of the Water Department.

Room 10, City Hall.

Engineer at Pumping Station.

SIDNEY E. HAYDEN.

Pumping Station, Storehouse, Repair Shop and Stable.

Cedar street, near Broadway.

Bills against the department should be rendered to the Superintendent on or before the first day of each month, and are payable by the City Treasurer on the seventeenth of the month.

REPORT OF THE WATER COMMISSIONERS.

OFFICE OF THE BOARD OF WATER COMMISSIONERS, }
January 10, 1900. }

To His Honor the Mayor and the City Council:—

The Board of Water Commissioners present herewith, for your consideration, the twenty-sixth annual report of this department, covering the operations of the year ending December 31, 1899.

The Board organized on the tenth day of February by the re-election of George D. Wemyss as president and Frank E. Merrill as clerk of the Board and superintendent.

The year has been a prosperous one. The work of the department has become so well systematized that everything goes on in an orderly manner and to the satisfaction of those of our citizens who have had occasion to visit the office or works on business connected with the department. It is a great satisfaction to be able to make so creditable a statement as this, and to do so with confidence, when this department has such intimate relations with all who reside in our city. The facts, however, are such as to warrant it, and the credit is largely due to the able and courteous manner in which the affairs of the department are administered by the superintendent and those whom he has to assist him in carrying on the work.

The new building referred to in the report last year has proved itself to be well adapted to the requirements of the department. During the past year improvements have been added in the way of conveniences for doing many kinds of work, for which no facilities existed before.

The meter-testing plant has served a good purpose during the past year. In some cases, where it had been thought by water takers that the meters were at fault, the matter has been adjusted by having meters tested in their presence, and in all cases the meters have been found to register correctly, and the parties were satisfied.

The repair shop has been equipped with new devices for better doing the work required, and the new features introduced are such as will result in greater utility and economy in connection with the affairs of the department.

High Service.

As was intimated in last year's report, our pumping plant has been an important feature to the Metropolitan Water Works, for

it has been run during the year entirely under the direction of the Metropolitan Water Works, with no expense whatever to the city of Somerville.

It is very gratifying to be able to say that the pump has proved itself equal to the occasion, and has done even more than could reasonably be expected of it. It has been run almost continuously day and night, supplying not only our own high service district, but pumping, also, into the Metropolitan reservoir in Middlesex Fells, which furnishes the high service for all the northern district of the Metropolitan Water Works.

The fact that the standpipe had been found in such condition that a considerable outlay would be required to make it serviceable suggested the plan of abandoning it if this could be done without detriment to the high water service. It did not seem to the Board to be a wise policy to spend a large sum of money in restoring the standpipe to a proper condition for use, in view of the expected high-water service from the large reservoir in the Fells, which would render the standpipe of no use except in case of emergency, and in such a case its capacity would be limited to the amount of water it contained, whereas the demand might far exceed this. Therefore, the standpipe and the grounds adjacent thereto have been surrendered by this department, and have been placed by the City Council in charge of the committee on public grounds.

The pumping station at Spot pond is now nearly completed, and is expected to be ready by February to commence pumping into the Fells reservoir. When it gets into operation our pump will be no longer needed, and may be disposed of when a favorable opportunity appears. It is, however, desired by the Metropolitan Water Board that some means should be provided to guard against a possible interruption from any cause of the supply from the Fells reservoir; therefore, the Board have given the subject considerable attention, with a view of making some recommendation as to the best way of accomplishing this. There will be only one line of pipe from the reservoir in the Fells to furnish the water for the entire high service of the northern district, and, should anything happen to this line of pipe, we should be without water in our high-service pipes, unless we are provided with an emergency pump of some sort which can be started up on short notice to supply the deficiency.

It has been difficult to fix upon any definite plan, however, although some progress has been made, but the final solution of the problem must be left to those who will have charge of the works after the present Board ceases to exist. It should receive early attention, in order that the necessary means may be provided, and the pump now in use disposed of when the new pumping station in the Fells starts up. The present steam pump would be undesirable as an emergency pump from the fact that it would be necessary to keep up steam all the time, night and

day, in order to be prepared to start up, should occasion require its use.

Water Supply.

All that has been said in former reports relative to the Metropolitan supply has been fully realized. The water is giving satisfaction to our citizens, and, in view of the unusually dry weather during the fall, there is reason for congratulation that we were not dependent upon the Mystic water supply, as formerly.

Renewals, Extensions, etc.

The work of the past year has been productive of even greater results than the year 1898, although the latter year was considered to be very important as regarded the amount of work accomplished.

The department work for the year 1899 embraces the following:—

Pipe laid of various sizes in extension of the works .	16,981 feet
Cast-iron pipe laid in replacing old cement mains .	20,405 "
New hydrants set, making now 911 in the city . . .	48
Additional gates put in	99
Additional check valves put in	3
New service connections made	247

This shows an extension of the works equal to two and one-quarter miles. As to the old cement-lined pipe, it has been gradually replaced from year to year, until now only about six miles remain in our streets. One more year should see the end of these objectionable pipes, which have been so troublesome in former years.

Water Revenue.

Bills have been placed in the hands of the City Treasurer for collection as follows:—

Annual water charges	\$158,990 00
Additional water charges	15,145 32
Metered water charges	45,849 76

	\$219,985 08
Abatements on above	4,542 05

Leaving net amount of bills	\$215,443 03
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To this may be added an amount received from the Metropolitan Water Board, being the proportion due us for revenue received from the admission into the Metropolitan water system of the city of Quincy and the towns of Arlington and Nahant, and from the sale of water to other parties; this, in effect, being a reduction of the amount due from the city of Somerville to the Metropolitan Water Board for the year 1899 2,577 19

Making total revenue	\$218,020 22
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The Water Department was granted by the City Council appropriations as follows:—

For Water Maintenance	\$50,000 00	
For Water Works Extension	20,000 00	
	<hr/>	
	\$70,000 00	
The interest on Water Bonds for the year has been	10,882 50	
Water Loan Bonds have been paid during the year amounting to	32,500 00	
Assessment Metropolitan Water Works . .	20,975 58	
Refunds made on water charges from appro- priation for Abatements (\$6,000) . . .	119 18	
	<hr/>	
Total amount of money expended for the Water Department		134,477 26
		<hr/>
Profit to the city		\$83,542 96
The amount of bills uncollected for water charges of 1899 is	\$12,203 69	
The amount collected by the City Treasurer in 1899 on account of uncollected bills for water charges of 1898 is	11,041 49	
	<hr/>	
Deduct this difference in order to arrive at the actual amount of water revenue available in 1899		1,162 20
		<hr/>
		\$82,380 76
This was used as follows:—		
Sewer Bonds	\$8,000 00	
Interest on Sewer Bonds	6,700 00	
Maintenance of sewers	8,500 00	
Sewers construction, appro- priation	\$19,722 75	
Sewers construction, balance of appropriation for Abatements on water charges (\$6,000)	5,880 82	
	<hr/>	
		25,603 57
Appropriated for Metro- politan Sewer Assess- ment, but not used	\$31,000 00	
Amount received from Met- ropolitan Water Board, as noted above, and not used	2,577 19	
	<hr/>	
		33,577 19
		<hr/>
		\$82,380 76

It is rather remarkable that the profit from this department practically agrees with the amount estimated in our report of last year, viz., \$83,000.

This estimate was made in connection with an exhibit showing that a reduction of the water charges to our citizens of ten per cent. could be made without any difficulty; this, however, not meeting with the approval of the Mayor, could not be effected. In this connection it may not be amiss to state that our sister cities Chelsea and Everett, whose rates were uniform with ours, have made material reductions in their rates, the former twenty-five per cent. and the latter ten per cent.

The profits from this department will probably not be any less than they are for the year just closed, and the feeling is that they will be even more than in the year 1899, if the same rates of charges are adhered to, for the expenses will not increase, but are likely to decrease, as the works are put into better shape by the substitution of cast-iron pipe for the cement-lined pipe, and by the improved methods of carrying on the work of the department, aided materially by the conveniences which the new building provides.

The future policy of the city may be either to give our citizens the benefit of this profit by a reduction of water charges, or by expending the money in the same way that taxes are expended, for the general good of the city. But it would seem to the Board that the first course would be the better one, and would give the citizens the most satisfaction, and they therefore commend this to the consideration of those who shall be in authority the coming year.

Statements as to the financial condition of the department are now submitted, together with the report of the superintendent of the works, to which your attention is requested.

GEORGE D. WEMYSS,

GEORGE A. KIMBALL,

WILLIAM FRANKLIN HALL,

Board of Water Commissioners.

FINANCES.

Cost of Water Works.

The total cost of the water works on December 31, 1898,	
was	\$721,578 98
Expended during the year 1899 on construction account	19,978 59
Total cost December 31, 1899	\$741,557 57

Water Debt.

The indebtedness of the city on account of the water works on December 31, 1898, was \$272,000; this debt has been reduced during 1899 by the payments of bonds, maturing July 1 and October 1, to the amount of \$32,500; the indebtedness being now represented by bonds drawing interest as follows:—

\$217,000.00 at 4 per cent. per annum.
12,500.00 at 5 per cent. per annum.
10,000.00 at 5½ per cent. per annum.

Total . . \$239,500.00

The following table, exhibiting the financial condition of the department from its first movements, is presented for reference and comparison:—

YEAR.	Water Loan Bonds Issued on Funded Debt Account.	Reduction of Funded Debt by Payments of Water Loan Bonds.	Expenditures for Construction of Water Works.	*Revenue from Water Works.
1869	\$80,000 00		\$92,203 27	\$911 39
1870	60,000 00		66,546 50	1,907 63
1871	60,000 00		43,648 66	3,151 30
1872	90,000 00	\$50,000 00	43,288 33	3,719 91
1873	60,000 00	20,000 00	27,691 26	5,084 97
1874	15,000 00		34,294 06	6,818 20
1875	20,000 00		13,375 76	9,652 37
1876	70,000 00	60,000 00	6,409 49	10,268 06
1877	10,000 00		13,845 74	10,735 90
1878	30,000 00	30,000 00	514 13	11,584 89
1879			791 56	12,341 60
1880	60,000 00	60,000 00		12,999 79
1881	40,000 00	40,000 00		14,697 37
1882	90,000 00	90,000 00		19,354 28
1883	7,500 00	7,500 00		19,661 67
1884	20,000 00	20,000 00		20,085 95
1885	20,000 00	20,000 00		21,542 28
1886	55,500 00	55,500 00		21,444 91
1887	9,000 00	9,000 00		42,650 57
1888	25,000 00	96,500 00	19,338 89	50,419 07
1889	90,000 00	19,000 00	81,117 43	51,470 91
1890	55,000 00	13,000 00	53,411 79	55,879 72
1891	10,000 00	†11,000 00	40,708 48	60,150 80
1892	28,000 00	28,000 00	34,863 17	77,640 91
1893		17,000 00	35,545 30	78,459 73
1894		18,000 00	28,375 67	83,401 30
1895		19,000 00	32,007 44	89,431 46
1896	‡12,000 00	18,500 00	16,631 83	95,719 69
1897		21,000 00	10,000 00	99,688 57
1898		22,000 00	26,970 22	200,735 03
1899		32,500 00	19,978 59	214,280 83
	\$1,017,000 00	\$777,500 00	\$741,557 57	\$1,405,891 06

Total issue \$1,017,000 00

Total payments 777,500 00

Present water debt \$239,500 00

* From 1869 to 1886, inclusive, the basis of Somerville's water revenue was as follows: — The entire revenue from sale of water in Somerville was collected by the city of Boston and payments were made to this city on the following sliding scale: —

On annual receipts up to \$20,000.00, Somerville's proportion was 15 per cent.

On annual receipts \$20,000.00 to \$30,000.00, Somerville's proportion was 20 per cent.

“ “ \$30,000.00 to \$40,000.00, “ “ “ 25 “

“ “ \$40,000.00 to \$50,000.00, “ “ “ 30 “

“ “ exceeding \$50,000.00, Somerville's proportion was 40 per cent.

In 1887 the contract was changed so that Somerville should receive 50 per cent. of the revenue, and this contract existed until January 1, 1898, on which date it was annulled, the revenue since that time being collected by the city of Somerville.

† In 1891 \$5,000.00 of Water Loan Bonds were cancelled, City Loan Bonds being substituted for them.

‡ Renewal.

REPORT OF SUPERINTENDENT OF THE WATER WORKS.

OFFICE OF SUPERINTENDENT OF THE WATER WORKS, }
January 2, 1900. }

To the Board of Water Commissioners:—

The customary annual statement of the work performed by the Water Department is herewith respectfully submitted for the year 1899.

The following table shows the

Receipts and Disbursements for the Year 1899.

WATER MAINTENANCE ACCOUNT.

	DR.	CR.
Amount appropriated by City Council from water revenue		\$50,000 00
Collections from sundry accounts for labor and materials		16,765 96
Collections from other sources		46 00
Balance from water service assessments		114 48
Materials furnished service department	\$2,199 92	
Materials furnished construction department	6,541 50	
Labor and materials furnished sundry persons	8,294 52	
Labor and materials used in maintenance of the water works	49,740 88	
Balance to credit of water debt	149 62	
	<hr/>	<hr/>
	\$66,926 44	\$66,926 44

WATER WORKS EXTENSION ACCOUNT.

	DR.	CR.
Amount appropriated by City Council from water revenue		\$20,000 00
Labor and materials used in extension of the water works	\$19,978 59	
Balance to credit of water debt	21 41	
	<hr/>	<hr/>
	\$20,000 00	\$20,000 00

WATER SERVICE ACCOUNT.

	DR.	CR.
245 water service assessments		\$4,293 15
Collections for extra labor and material on above services		2 80
Labor and materials used in water service construction	\$4,181 47	
Balance transferred to water maintenance account	114 48	
	<hr/>	<hr/>
	\$4,295 95	\$4,295 95

Accounting Department.

During the year there have been issued 9,930 "annual" water bills, 1,535 "additional" bills, and 764 "meter" bills. Herewith is given a summary of the work of the income department to December 31, 1899:—

Total amount of all water bills rendered consumers in 1899 account	\$219,985 08
Total amount abated consumers in 1899 account	4,542 05
Apparent earnings of Water Department, 1899	\$215,443 03
Total amount collected by City Treasurer, December 31, 1899, on 1899 account	203,239 34
Uncollected water bills December 31, 1899	\$12,203 69

Uncollected bills are apportioned as follows:—

Metered water charges due January 1, 1900	\$12,157 69	
Annual water charges	46 00	\$12,203 69
Total amount of all bills uncollected January 1, 1899		11,739 01
Total abatements on above bills made in 1899		697 52
Total amount collected by City Treasurer in 1899 on above bills		11,041 49

Abatements were apportioned as follows:—

Water used for fire purposes	\$687 52	
Premises condemned	10 00	\$697 52

Inspection Department.

The routine work laid out for this department in 1898 has been followed this year, and all premises in the city not supplied by meter have been carefully inspected. Four hundred and sixty-two defective fixtures have been discovered, divided as follows:—

Tanks and water closets	325
Faucets	109
Pipes	28

It has been the continued policy of the department to maintain a close watch for all waste of water, and to require defective pipes and fixtures to be properly repaired. Three hundred and ninety-six "waste notices" were sent out, and forty premises required a second notification before the waste was stopped.

Renewal of Street Mains.

This department of the work has been vigorously prosecuted during the year; 20,405 feet of the old cement-lined mains have been relaid with cast-iron pipe, leaving about 28,000 feet still in our streets. But few breaks have occurred during the year, as the old pipes were early removed from those streets where their weakness was suspected.

The 12-inch cement-lined pipe in Central street, which was laid in 1868, is still in service, but, judging from the condition of other pipes which have been removed, it is fair to assume that it has about reached its limit of safety, and should soon be replaced with iron pipe. The 12-inch cement pipe in Medford street, which was laid in the same year, was found to be in a condition which justified its removal this season, and it was accordingly replaced with an iron pipe of the same size.

A considerable portion of this old pipe seemed to be in very fair condition, but other sections were extremely weak, and liable to burst under a slight water hammer or increased pressure.

There have been thirteen bursts and ten joint leaks during the year. The cost of repairing the defective street mains has been :—

Pipe and fittings	\$69 73
Labor and teaming	291 91
Total	<hr/> \$361 64

Extension of Street Mains.

During the year there have been laid 12,304 feet of pipe of various sizes to furnish water to houses constructed on new streets or elsewhere beyond our pipes, and to furnish additional supplies to certain districts, and, whenever practicable, connection has been made with some other main to secure circulation of the water. In addition to this, 4,677 feet of pipe have been laid for circulation purposes, and the result of all has been the removal of forty-six dead ends from the water system, which, it is safe to say, will greatly improve the quality of the water in the districts where they formerly existed. There is still opportunity for further action in this direction, and the work should be continued until no dead ends are left that it is reasonably possible to remove.

The total pipe mileage of the city is now approximately eighty-one miles, 3,583 feet.

High Service.

The high-service pipe in Summer street has been extended through Bow street to a connection with the old low-service main running through Union square and Washington street, giving high pressure as far as Bonner avenue, where a 10-inch check valve has been set between the high and low service systems. Five fire hydrants in Union square and its immediate vicinity have been connected to this pipe, and the pressure in this district for fire purposes is now about 103 pounds per square inch.

A 12-inch high-service pipe has been laid in Medford street, from a connection with the 14-inch pipe in Central street, as far as School street. It is intended to extend this pipe through Gilman square to connect with the main now laid beyond the

Boston & Maine railroad bridge, thus furnishing a high-water pressure for fire service in this section of the city which will reach nearly 100 pounds per square inch.

Some means should also be taken to furnish a high-pressure fire service to Davis square and vicinity; in the accomplishment of this it may be thought advisable to lay a high-service pipe from Cedar street, through Highland avenue and Holland street, to connect with the western high-service district at Gorham street, as Clarendon hill has not, at present, any connection with the general high-service system of the city, but is supplied from an independent connection with the Metropolitan Water Works pipe in Boston avenue, near Professors' row.

Pumping Plant.

Our high-service pumping plant has been run continuously during the year under arrangement made with the Metropolitan Water Board, whereby our plant has been made an important factor in the operation of the Metropolitan northern high-service district. This arrangement is to continue until the large pumping station and engines of the Metropolitan Water Works at Spot pond are completed, when it is expected that our plant will cease operation. Since January 1, 1899, our pump has worked in connection with those in neighboring cities to furnish high pressure to the entire northern high-service district, comprising Somerville, Medford, Malden, Melrose, Everett, Chelsea, Winthrop, Nahant, and Swampscott.

The pumping plant has been operated by our own department, under the general direction of the Metropolitan Water Board, and all the expenses have been paid by the Commonwealth.

In the course of the pumping operations, the new high-service reservoir of 38,000,000 gallons capacity, situated in the Middlesex Fells, has been filled. The engine has, during the year, pumped 720,960,000 gallons of water, against an average net head of 127 feet, and in one day, October 28, it raised 2,800,000 gallons, although its nominal capacity is but 2,000,000 gallons in twenty-four hours.

The quantity of water pumped and the conditions under which it has been used are so different from previous years that the customary chart would have little value, and therefore none is given this year.

The standpipe on Spring hill has been abandoned for water purposes. Connection with the force main in Belmont street was cut off on October 24, and on that date it was, by order of the City Council, delivered to the care and custody of that body, together with the land on which the structure stands.

Since the completion of the reservoir in the Middlesex Fells our pressure has been generally increased throughout the high-service district about eighteen pounds per square inch.

General Construction.

A 20-inch water main has been laid in Broadway, between Willow avenue and a point near Elm street, to carry the water from our 20-inch connection with the Metropolitan main at Willow avenue to the West Somerville district. East of Willow avenue the 12-inch pipe in Broadway has been carried over the Boston & Maine railroad bridge and laid to Cedar street, connecting with the 12-inch and into the 30-inch main at that point.

A 12-inch low-service main has been laid in Medford street, from Magoun square to School street; a portion of this work was rendered necessary by the construction of the wire conduit of the New England Telephone and Telegraph Company, and a part of the expense of the work was borne by that company.

A considerable amount of reconstruction has been made necessary, also, by the laying of the large gas mains through Washington and Prospect streets, and the expense of the same has been paid by the Massachusetts Pipe Line Gas Company. The pipe in Chauncey avenue was relaid and extended during the reconstruction of that street by the Metropolitan Park Commission. Pipes have been laid through Lincoln parkway, connecting Newton street with Washington street, and a 16-inch main has been laid in Glass-house court, giving the packing house district another and bountiful supply of water direct from the 24-inch connection with the Metropolitan main in Webster avenue.

New hydrants have been set and old ones relocated wherever necessary to improve the fire service. Blow-offs have been constructed wherever practicable along the new pipe lines, and every attention has been given to make the system as complete as possible while the work of construction has been in progress.

Service Department.

Two hundred and forty-seven new service connections have been made during the year, an increase of forty-two over the previous year. Two of the premises were formerly supplied by the city of Cambridge. Nine thousand three hundred and fifteen feet of pipe has been laid in making these connections; the total mileage of service pipes is approximately 63 miles, 2,241 feet, and the number of connections 10,053.

Necessary attention has been given to the maintenance of the service system, and a large number of boxes have been set, raised, and lowered as needed, pipes repaired, sediment removed, etc.

The long-continued cold of the early part of the year at a time when there was no snow on the ground drove the frost down to the depth of our service pipes, and, in some cases, froze the water in them, requiring considerable expense for thawing and repairs. The total expenditure for labor and fittings on service maintenance account was \$2,200.74.

Meter Department.

No large increase has been made in the number of meters in service. All the various types used show excellence of construction and, on tests, indicate a satisfactory degree of accuracy in registration.

At the beginning of the year the number of meters in operation was	194
The number of operating meters added during the year was	37
Meters removed during the year	5
Total number of meters in operation December 31, 1899	226
Number of meters added to commence January 1, 1900	4
Total number of meters set	230
Motor and elevator clocks in operation December 31, 1899	7

Meters in Use December 31, 1899.

	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	Total.
Empire . .	1								1
Crown . .	5	6	5	1	2	1	1	1	22
Gem . .							1		1
Hersey . .			10	1	3	3			17
Hersey Disc	1		9	1	3				14
Trident . .	37	41	25	7	5	1	2		118
Union . .	3	11	10	2	6	1	2		35
Union Special		8	7						15
Lambert . .	3								3
Totals . .	50	66	66	12	19	6	6	1	226

Expenditure for labor, teaming, and materials used in meter construction was \$1,542.16. Expense of maintenance and repairs of meters and changes in meter connections, for labor and materials, was \$207.46.

Hydrants, Gates, etc.

Vigilance is the price of an efficient fire hydrant service, and that quality has been exercised to the degree that none of our hydrants have failed to properly respond to the demands made upon them by the fire department. During the severe weather of last winter the hydrants were regularly and carefully inspected, and special attention was given to those showing any liability to become inoperative through water freezing around their valves or working parts.

During the past summer every hydrant has been examined, repacked, when necessary, new valves put in, and minor repairs made as called for.

Several old-style hydrants showing inefficient operation have been removed and more suitable ones set in their places. All are now in good condition. Seventy-three hydrants have been set and twenty-five abandoned, making a net increase of forty-eight.

Expense of maintenance and repairs of hydrants for inspection, labor, and materials used in repairs, teaming, painting, etc., was \$1,558.36. Cost of constructing forty-eight new hydrants was \$1,346.60.

The number of gates set during the year has been 102; three have been removed, making a net increase of ninety-nine and a total number in the city 1,134.

Cost of maintenance of main gates and boxes for labor, materials, and teaming was \$57.46. Cost of construction of ninety-nine new gates was \$982.14.

Three check valves have been set between the high and low service as follows:—

Ten-inch in Washington street at Bonner avenue.

Ten-inch in Summer street at Cedar street.

Twelve-inch in grounds of Tufts College, near Mystic reservoir.

Thirty-three blow-offs have been constructed and one discontinued, making a net increase of thirty-two and a total number in the city of eighty-four.

Two water posts have been constructed at the request of the Committee on Street Watering; one on Cherry street, in front of the Burns School, and one on Medford street, in Gilman square. Total number now in the city is fifty-eight.

The locations of three water posts have been changed, viz.: One on Flint street, near Cross street, moved about twenty feet toward Cross street; one on Concord avenue, corner of Marion street, moved to opposite the Knapp School; one on Columbus avenue, corner of Stone avenue, moved to opposite side of the street.

Expense of construction and maintenance of water posts was as follows:—

Cost of setting two new water posts, complete,			
Materials	.	.	\$91 23
Labor and teaming	.	.	32 49
			<hr/>
			\$123 72
Maintenance of water posts,			
Materials	.	.	\$155 15
Labor and teaming	.	.	245 78
			<hr/>
			400 93

Following is a summary of the various fixtures of the water system:—

Total number of public hydrants in the city	.	.	870
Total number of private hydrants in the city	.	.	41
Total number of gates in the city	.	.	1,134
Total number of check-valves in the city	.	.	5
Total number of water posts in the city	.	.	58
Total number of blow-offs in the city	.	.	84

Buildings and Grounds.

The new shop and stable building has proved a great convenience in the transaction of the work of the department. The pipe yard, fittings, tools, teams, and all things necessary to a prompt and efficient attendance upon the duties of the department are

now concentrated at this point, and the plant has won many expressions of commendation from water works superintendents and others who have visited the premises.

The grounds about the building have been laid out and graded; a new road has been constructed on the westerly side of the grounds; the depression west of the buildings has been filled in, and a space for a small pond has been left, which, when completed and filled, will add largely to the appearance of the grounds and buildings.

Metropolitan Water Works.

An unrestricted supply of excellent water has been furnished us by the Metropolitan Water Board, and the abnormally dry summer and fall, which has caused a shortage in the water supplies of many cities and towns, has not affected in any way the district supplied by the Metropolitan system.

The amounts estimated by the Metropolitan Water Board to be assessed by the Commonwealth upon Somerville for this city's proportion of the cost and maintenance of the Metropolitan Works, and the assessments actually levied are as follows:—

	Estimated Assessment	Actual Assessment.
1898	\$14,400 00	\$14,250 19
1899	21,200 00	20,975 58
1900	30,200 00	
1901	39,200 00	
1902	48,500 00	
1903	53,900 00	
1904	62,600 00	

It is estimated that the maximum assessment will be reached in the year 1904.

Drinking Fountains and Troughs.

In May, by order of the City Council, the care and maintenance of all drinking fountains and horse troughs was placed in the Water Department. There are now three drinking fountains, two combination fountains, and three horse troughs in the city. Two of the drinking fountains are supplied with ice water.

The fountain in Union square has been painted and gilded, a new coil of tin pipe has been placed in the ice box, and an additional non-conducting cover has been provided for the box to secure greater economy of ice. The horse trough in Union square, which has for some time been in a shaky condition, has been replaced with a substantial structure, built with less regard for ornamentation than for durability and hard service. The fountain in Gilman square was damaged by the pole of some heavy wagon, rendering it necessary to put in a new panel. The man-hole of the fountain in Teele square has been enlarged for the purpose of facilitating work on the pipes and fixtures. The iron work of the fountains has been painted, and the troughs have been regularly cleaned.

The expense of maintenance of drinking fountains and troughs for labor, materials, ice, etc., was \$273.21. The cost of construction of drinking troughs was \$183.60.

Location of Drinking Fountains.

Broadway, opposite park, near Wheatland street .	H
Union square, junction Somerville avenue and Washington street .	H
Union square, in front of Hill building . . .	D I
Highland avenue, in front of City Hall Annex .	D
Gilman square	C
Davis square	H
Davis square, in front of Medina building . .	D I
Teele square	C

H, horse trough; D, drinking fountain; I, ice water; C, combination trough and drinking fountain.

Electrolysis.

As much interest has been awakened in recent years throughout the country on account of the destructive effect on water pipes of the electric current escaping from the rails of the street car systems as now generally operated, it seemed desirable to know if the return currents of the Boston Elevated railway lines, which traverse so many of our streets, are liable to cause any injurious action to the pipes of our local water system. In order to determine to what extent our water mains may be suffering from electrolytic corrosion, a series of tests was made, with the assistance of Superintendent Backus, of the city's electrical department, covering every hydrant situated along the several car lines in the city. Readings were thus taken at 188 different hydrants located in all sections of the city.

The results of these tests indicated that the Boston Elevated Railway Company have given such careful attention to the matter of providing suitable return conductors for their power current that very little of it is escaping into the ground, or, at least, finding its way to our water mains, and, except in one or two localities, the difference of potential between the rails and pipes is so small that no apprehension need be felt at present regarding its effect on our pipes.

A comparatively high positive reading was observed at the lower end of Somerville avenue, increasing as East Cambridge was approached; this condition seems to be due to the operation of the power house in that vicinity, and can probably be relieved.

The pipes show positive readings, also, in Broadway approaching Charlestown, and investigation will be made to discover the cause and apply a remedy.

The tables appended hereto furnish further details of the department work performed during the year.

I desire to extend to you my thanks for your cordial cooperation and advice, which have largely aided me in carrying out your plans and in maintaining the efficiency of the department.

FRANK E. MERRILL, Superintendent.

LOCATIONS OF NEW MAINS LAID, LENGTH AND SIZE, NUMBER OF GATES, HYDRANTS, ETC., SET IN 1899.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER POSTS.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Allen ct.	Main in Park st.	Dead end	1½"	150	1½"	1							
Bartlett st.	Main in Medford st.	Con. with iron pipe	6"	526	6"	1							
Beacon st.	Main in Somerville ave.	Con. with iron pipe	{ 12"	142	6"	1							
			{ 6"	30									
Bow st. and Union sq.	Con. with 10" pipe in Summer st.	{ Con. with 10" Washington st. }	10"	662	10"	2							
		{ pipe opposite 47 Union sq. }											
Bow st. and Union sq.	Hydrant connection		8"	53	8"	1							
Bowers ave.	Main in Elm st.	Con with iron pipe	{ 6"	45			Mathews	1					
Broadway	Con. with 20" at Willow ave.	Con. with 20" near Liberty ave.	6"	142	6"	1							
Broadway	E. side B. & M. R. bridge	Con. with iron pipe at Rogers ave.	20"	764	12"	2							
Broadway	Hydrant connection		12"	412			Mathews	1					
Broadway	Blow-off		6"	17					6"	4			
Cambria st.	Con. with cement pipe	Main in Benton road	6"	232	6"	4							
	{ Main in Highland ave. }	Con. with Hudson st.	6"	187	6"	1							
	" "	Main in Summer st.	12"	228	12"	1							
Cedar st.	Hydrant connection		10"	718	10"	2							
	Blow-off		6"	5			Holyoke	1					
	" "		4"	10	4"	1			4"	1			
Cedar st.	Gate				12"	1							
Central st.	Gate				8"	1							
Chapel st.	Hydrant		6"	7	6"	1							
Chapel st.	Con. with iron pipe	Main in Mystic ave.	6"	588	8"	1	Holyoke	1					
Chauncey ave.	Gate				2"	1	Holyoke						
Chauncey ave.	Water post				2"	1			4"	1			1
Cherry st.	Blow-off				4"	1							
Chestnut st.	Con. with Glass-house ct.		10"	45									
Columbia st.	Con. with iron pipe	Dead end	8"	20									
Columbus ave.	Hydrant		8"	81			Mathews	1					
Conwell ave.	Gate		6"	6			B. M.	1					
Cooney st.	Hydrant												
Cooney st.		Carried forward		5,060		25		7		6			1

Locations of New Mains Laid, Length and Size, Number of Gates, Hydrants, Etc., Set in 1899. — Continued.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER POSTS.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Curtis ave.	Hydrant	Brought forward	6"	5,060		25	B. M.	7		6			1
Curtis st.	Blow-off		6"	6				1					
Elm st.	Hydrant		6"	60	6"	1	Mathews	1	6"	1			
Elm st.	Gate		6"	10	12"	2		1					
Elm st.	Blow-off		6"	17	6"	1			6"	1			
Elm ct.	Gate		6"	12	2"	1							
Elmwood st.	Blow-off		8"	7	6"	1		1	6"	1			
Evergreen ave.	Gate		6"	2	6"	1							
Fairmount ave.	Hydrant		6"	7									
Fremont st.	Hydrant		6"	5				1					
Glass-house ct.	Main in Webster ave.	Con. with Water st.	16"	1,021				1					
Glass-house ct.	Hydrant connection		6"	13	6"	1	Mathews	1	6"	1			
Glass-house ct.	Blow-off		6"	9									
Glendale ave.	End of iron pipe	Con. with Yorktown st.	6"	214	6"	1							
Grove st.	Main in Highland ave.	Con. with iron pipe	8"	286	8"	2		1					
Grove st.	Hydrant connection		6"	20				1					
Grove st.	Hydrant		6"	5									
Hall st.	Main in Berkeley st.	Main in Oxford st.	8"	265	8"	1							
Hersey st.	Gate		6"	8	10"	1							
Highland ave.	Hydrant		6"	8				1					
Jaques st.	Blow-off		4"	12	4"	1	B. M.	1	4"	1			
Jenny Lind ave.	Hydrant		6"	6			Mathews	1					
Jenny Lind ave.	Blow-off		6"	10	6"	1			6"	1			
Jenny Lind ave.	Con. with iron pipe	Main in Lincoln parkway	6"	118	6"	1		1					
Joseph st.	Hydrant		6"	6			Mathews	1					
Joseph st.	Main in Washington st.	Con. with Joseph st.	{ 10"	576	10"	1							
Lincoln Parkway	Gate		8"	231	8"	1							
Line st.	Hydrant		6"	6	6"	2	Mathews	1					
Line st.		Carried forward		7,985		45		18		12			1

Locations of New Mains Laid, Length and Size, Number of Gates, Hydrants, Etc., Set in 1899.—Continued.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER POSTS.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Main st.	Hydrant	Brought forward	6"	7,985		45		18		12			1
Marion st.	Hydrant		6"	8				1					
Meacham st.	Hydrant	Main in Moreland st.	6"	7				1					
Meacham st.	Blow-off		8"	291	4"								
Medford st.	Between School st. and Magoun sq.		4"	14	12"	1			4"	1			
			{ 12"	1,534	8"	3							
			8"	717		1							
Medford st.	Hydrant connection		6"	87				2					
	Gate				12"	2	{ Mathews	2					
Medford st.	Blow-off		8"	25	8"	2	Holyoke		8"	2			
Medford st.	Blow-off		6"	38	6"	2			6"	2			
Medford st.	Blow-off		6"	10	6"	1			6"	1			
Medford st.	Main in Walnut st.	Dead end	12"	442	10"	1							
Medford st.	Hydrant connection		6"	95				1					
Medford st.	Water post		2"	29	2"	1	Walker	1					1
Monmouth st.	Hydrant		6"	6			Walker						
Moreland st.	Gate				10"	1							
Morgan st.	Gate				6"	2							
Morrison ave.	Main in Cedar st	Con. with iron pipe.	10"	980	10"	1							
Morrison ave.	Hydrant connection		6"	24	6"	1	Mathews	3	6"	1			
Morrison ave.	Blow-off		6"	24									
Mt. Vernon ave.	Main in Main st.	Con. with iron pipe.	10"	17	6"								
Myrtle st.	Hydrant		6"	28			Holyoke	2					
Myrtle st.	Gate				8"	1							
Mystic ave.	Con. with Wheatland st.	Con. with Chauncey ave.	12"	245									
Mystic ave.	Hydrant connection		6"	11			Mathews	1	6"	1			
Mystic ave.	Blow-off		6"	11					6"				
Norwood ave.	Blow-off		6"	26									
Oakland ave.	Gate												
		Carried forward		12,584		68		32		21			2

Locations of New Mains Laid, Length and Size, Number of Gates, Hydrants, Etc., Set in 1899. — Continued.

NAME OF STREET.	FROM	TO	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER POSTS.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Oxford st.	Hydrant	Brought forward	6"	12,584		68	Mathews	32	21				2
Oxford st.	Gate			6				1					
Packard ave.	Gate and check valve												
Park st.	Blow-off		12"	5	8"	1					12"	1	
Park st.	Hydrant		6"	8	6"	1	Mathews	1	6"	1			
Pearson road	Con. with Broadway		6"	14									
Professors' row	Hydrant		8"	62	8"	1		1					
Prospect st.	Gate		6"	18			{ B. M. Holyoke	1					
Quincy st.	Hydrant				10"	1		1					
Raymond ave.	Hydrant		6"	14			{ Mathews Holyoke Corey	1					
Rogers ave.	End of iron pipe		6"	11				1					
Roseland st.	Main in Beacon st.	Dead end	6"	79									
School st.	Blow-off	Dead end	2"	238	2"	1							
School st.	Con. with Evergreen ave.	Con. with School-st. H. S.	6"	26	6"	1			6"	1			
School st.	Hydrant connection		10"	259			Mathews	1	6"	1			
Simpson ave.	Blow-off	Con. with iron pipe	6"	21	6"	1	Mathews	1	6"	1			
Simpson ave.	Main in Holland st.		12"	6	12"	1							
Simpson ave.	Hydrant connection		6"	752			Mathews	1	6"	1			
Smith ave.	Blow-off		6"	7	6"	1							
Somerville ave.	Con. with John P. Squire & Co.		6"	9	6"	1							
Stone ct.	Main in Stone ave.	Dead end	12"	55	12"	1							
Summer st.	Con. with Quincy st.	Con. with Church st.	2"	133	2"	1							
Summer st.	Blow-off		8"	268	6"	1				6"	1		
Summer st.	Blow-off		6"	4	6"	1				6"	1		
Summer st.	Gate and check valve		10"	10	10"	1					10"	1	
		Carried forward		14,003		85		41	27			2	2

Locations of New Mains Laid, Length and Size, Number of Gates, Hydrants, Etc., Set in 1899. — Concluded.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES SET.		HYDRANTS SET.		BLOW-OFFS.		CHECK VALVES.		WATER POSTS.
			Size.	No. Feet.	Size.	No.	Kind.	No.	Size.	No.	Size.	No.	
Victoria st.	Main in Woodstock st.	Brought forward	6"	14,603	6"	85		41		27		2	5
Villa ave.	Hydrant	Con. with iron pipe	6"	506		1		B. M.					
Villa ave.	Gate		6"	6		1		1					
Vinal ave.	Blow-off		6"	23		1			6"	1			
Vine st.	S. line Somerville ave.	Con. with Tyler st.	10"	370		1		Corey					
Vine st.	Hydrant connection		6"	7				1					
Washington ave.	Gate		2"			1							
Washington st.	Gate and check valve		10"	35		3			6"	1	10"	1	
Washington st.	Blow-off		6"	25		1			6"	1			
Washington st.	Blow-off		6"	11		1		Mathews					
Washington st.	Hydrant		6"	10				Holyoke					
Washington st.	Hydrant		6"	79				3					
Water st.	Gate		10"			1							
Waterhouse st.	Main in Woodstock st.	Con. with iron pipe	8"	105		1							
Webster ave.	Con. with Washington st.	Con. with Somerville ave.	12"	174		1							
Wheatland st.	Con. with Mystic ave.		6"	15									
William st.	Hydrant		6"	6				Holyoke					
Willoughby st.	Main in Central st.	Dead end	8"	146		1							
Woodstock st.	Con. with Victoria st.	Dead end	8"	247									
Woodstock st.	Blow-off		6"	18		1			6"	1			
Wyatt st.	End of iron pipe in North Wyatt st.	Con. with iron pipe in South Wyatt st.	6"	371		1							
Wyatt st.	Blow-off		6"	26		1			4"	1			
Yorktown st.	Con with Glendale ave.	Dead end	4"	190									
Yorktown st.	Blow-off		6"	8		1			6"	1			
				16,961		102		48		33		3	2

LOCATION AND LENGTH OF PIPES RELAID, GATES AND HYDRANTS RESET, 1899.

NAME OF STREET.	FROM	TO	PIPE LAID.		GATES.			HYDRANTS.			BLOW-OFFS.		
			Size.		Length.	Aband.		Reset.	Aband.		Reset.	Aband.	
			Aband.	Relaid.		Size.	No.		Kind.	No.		Kind.	No.
Adams st.	Con. with Medford-st. H. S.	Con. with iron pipe	6"	8"	40	6"	1	1	B. M.	1			
Adrian st.	Main in Marion st.	S. line of Washington st.	6"	6"	123	3"	1	1					
Bartlett st.	Main in Washington st.		3"	12"	55	8"							
Bartlett st.	Con. with Medford-st. L. S	Dead end	6"	8"	9	6"							
Beacon pl.	N. line of Beacon st.		4"	6"	220								
Beacon st.	Hydrant renewal												
Berkeley st.	W. line of School st.	Con. with Hersey st.	4"	8"	685	4"	2	{ 8" 6"	B. M.	1	Mathews	4"	1
Berkeley st.	Hydrant connection		4"	6"	23								
Bow st	Hydrant renewal												
Broadway.	Con. with Cedar st.	E. side B. & M. R. bridge	8"	12"	627	8"	2	12"	B. M.	1	Mathews		
Broadway.	Hydrant connection		6"	6"	10				Mathews	1	Holyoke		
Cedar ave.	Con. with Cedar st.		6"	6"	12				Holyoke	1	Holyoke		
Cedar st.	Hydrant renewal												
Central st.	Main in Medford st.	W line Medford st.	14"	14"	16	4"	1	8"					
Chapel st.	Main in Elm st.	Main in Chandler st.	4"	8"	338	12"	1	8"					
Chauncey ave.	N. line of Broadway	Con. with iron pipe	6"	8"	513				B. M.	1	Holyoke		
Chauncey ave.	Hydrant connection		6"	6"	2				B. M.	1	Corey		
Chauncey st.	Hydrant renewal												
Clark st.	Dead end	Con. with Lincoln p'kway	8"	10"	175	6"							
Clark st.	Hydrant connection		6"	6"	4								
Clark st.	Hydrant renewal												
Conwell ave.	Main in Curtis st.	Dead end	4"	10"	489	4"	1	10"	B. M.	1	Corey		
Conwell ave.	Hydrant connection		4"	6"	6								
Cook st.	Hydrant renewal	Con. with line st.	4"	8"	258				B. M.	1	Mathews		
Cooney st.	S. line Beacon st.	Dead end	4"	6"	234	{ 4" 2"	1	6"				2"	1
Curtis ave.	Main in Curtis st.												
		Carried forward			3,839		11	9		9		2	1

Location and Length of Pipes Relaid, Gates and Hydrants Reset, 1899. — Continued.

NAME OF STREET.	FROM	To	PIPE LAID.			GATES.			HYDRANTS.			BLOW-OFFS.		
			Size.		Length.	Aband.	Size.	No.	Aband.	Kind.	No.	Aband.	Kind.	No.
			Aband.	Relaid.										
Curtis st.	Con. with Professors' row	Brought forward	6"	8"	3,839	11	6"	9			9			1
Curtis st.	Hydrant connection	Dead end	6"	6"	250	1	8"	1						
Dartmouth st.	Con. with Medford st.		6"	6"	5									
Elm st.	Main in Highland ave.	N. line Chapel st.	6"	12"	960	1	6"	1		B. M.	1			
Elm st.	Hydrant connection		3"	6"	15									
Elm ct.	Main in Villa ave.	Dead end	6"	2"	107									
Elmwood st.	End of iron pipe	Con. with iron pipe	4"	6"	237	1	4"	1						
Essex st.	Con. with Medford st.		1"	2"	21	1	1"	1						
Eustis st.	S. line Beacon st.	Dead end	6"	8"	148	1	1"	1						
Evergreen ave.	Con. with School st.		4"	8"	10	2	4"	1						
Fairmount ave.	Main in Curtis st.	Dead end	4"	4"	654			1						1
Fairmount ave.	Hydrant connection		4"	6"	10			1		Chapman		4"	4"	
Fairmount ave.	Hydrant renewal		2"	2"	6						1			
Franklin ct.	E. line Somerville ave.	Dead end	4"	8"	190	1	6"	1						
Front st.	Con. with Meach'm-st. H.S.		8"	8"	428									
Grove st.	Main in Highland ave.	N. line Elm st.	4"	6"	8									
Hall ave.	Con. with Elm st.	Dead end	4"	6"	321	1	4"	1						
Hall st.	W. line Cedar st.		4"	8"	10	1	4"	1						
Hudson st.	Con. with Cedar st.		4"	8"	940	2	4"	1						
Jenny Lind ave.	N. line Vernon st.	8' E. from Medford st.	4"	8"	53									
Jenny Lind ave.	Hydrant connection		4"	6"	1,120	1	6"	1		B. M.	1			
Line st.	Main in Washington st.	Con. with Cooney st.	6"	10"	18	2	6"	1						
Lowell st.	Con. with Medford-st. L.S.		6"	10"	686									
Main st.	Main in Broadway	Con. with iron pipe	6"	10"										
		Carried forward			10,042	25		23			12			2

Location and Length of Pipes Relaid, Gates and Hydrants Reset, 1899. — Continued.

NAME OF STREET.	FROM	TO	PIPE LAID.		GATES.				HYDRANTS.				BLOW-OFFS.							
			Size.	Length.	Aband.		Reset.		Aband.		Reset.		Aband.		Reset.					
					Aband.	Relaid.	Size.	No.	Size.	No.	Kind.	No.	Kind.	No.	Kind.					
Main st.	Hydrant connection Main in Concord ave. { 15' E. from W. line School st. Con. with 12" L. S. at Central st.	Brought forward	6"	10 042	25	23														
Marion st.			6"	8	1	8"	1													
Medford st.			6"	2,700	3	12"	4													
			12"	8"	1															
Medford st.	Hydrant connection		6"	50																
Monmouth st.			2"	215	1	6"	1													
Moreland st.			6"	193	1	10"	1													
Morgan st.			4"	31																
Morrison st.	{ N. line Washington st. Main in Perkins st.	Con. with iron pipe N. line Pearl st.	6"	4																
Myrtle st.			8"	896	1	8"	1													
Myrtle st.			6"	6																
Norwood st.			4"	42	1	6"	1													
Oakland ave.	{ W. line School st. End of iron pipe Main in Professors' row Con. with Elm st.	Con. with iron pipe E. line Central st. 12' S. from Professors' row	6"	16																
Oxford st.			4"	681	1	6"	1													
Packard ave.			6"	397																
Park ave.			12"	44	1	12"	1													
Park st.	Hydrant connection Con. with Medford st. Hydrant renewal	Con. with iron pipe	6"	24																
			6"	1,240	2	12"	2													
Park st.			6"	8	1	6"	1													
			6"	58																
Partridge ave. Pinckney st.		Carried forward		16,903	39	37														

Location and Length of Pipes Relaid, Gates and Hydrants Reset, 1899. — Concluded.

NAME OF STREET.	FROM	To	PIPE LAID.		GATES.				HYDRANTS.				BLOW-OFFS.			
			Size.		Length.	Aband.		Reset.	Aband.		Reset.	No.	Aband.		Kind.	No.
			Aband.	Relaid.		Size.	No.		Size.	No.			Kind.	No.		
Professors' row	Main in Curtis st.	Brought forward	6"	8"	16,903	6"	39	37	8"	2	20	3				2
Professors' row	Hydrant connection	Main in Packard ave.	6"	6"	742	6"	2	2	8"	1	1		B. M.			
Quincy st.	Main in Summer st.	Con. with iron pipe	4"	8"	783	6"	1	1	8"	1	1		B. M.			
Quincy st.	Hydrant connection	Con. with Line st.	4"	6"	7	6"							B. M.			
Smith ave.	S. line Beacon st.	Con. with Line st.	4"	6"	224	6"										
Somerville ave.	Con. with 12" pipe	Easterly	8"	12"	36	4"	1	1	8"	1	1					
Sycamore st.	Main in Medford st.	Con. with iron pipe	4"	8"	40	3"	1	1	6"	1	1		B. M.			
Sycamore st.	Hydrant renewal		2"	6"	27	6"										
Taunton st.	Con. with Marion st.		6"	6"	34	6"										
Tennysen st.	Con. with Medford st.		6"	8"	33	6"										
Thurston st.	Con. with Medford st.		6"	8"	18	8"	1	1								
Trull st.	Con. with Medford st.		6"	8"	18	8"	1	1								
Union sq.	Hydrant branch	Dead end	6"	6"	163	4"	1	1	4"	1	1		Chapman			
Villa ave.	Main in Winslow ave.		3"	2"	288	4"	1	1	6"	1	1					
Ward st.	Hydrant renewal	Dead end	4"	6"	209	4"	1	1	6"	1	1					
Washington ave.	Main in Washington st.	Con. with Line st.	4"	6"	54	4"	1	1	6"	1	1					
Washington st.	S. line Beacon st.		20"	10"	20	16"	1	1	16"	1	1					
Waverley st.	Con. with Washington st.		16"	16"	50	4"	1	1	8"	1	1					
Webster ave.	Con. with Glass-house ct.	W line Grove st.	4"	6"	534	6"										
Winslow ave.	Main in Elm st.		4"	6"	7	6"										
Winslow ave.	Hydrant connection		4"	6"	23	6"										
Winter st.	Con. with Elm st.		4"	6"	200	6"							B. M.			
Wyatt st.	W. line Concord ave.	Con. with iron pipe	4"	6"	20,405	6"										
							50	47				25				2

Hydrants — Construction Account.

New hydrants have been set in the following locations :—

Bow street, 74 feet north from Walnut street, 6-inch Mathews.
 Broadway, 5 feet east from Wilson avenue, 6-inch Mathews.
 Cedar street, 22 feet south from Highland avenue, 6-inch Holyoke.
 Chapel street, 14 feet east from Chandler street, 6-inch Holyoke.
 Chauncey avenue, 437 feet south from Mystic avenue, 6-inch Holyoke.
 Conwell avenue, 20 feet west from Curtis street, 6-inch Mathews.
 Cooney street, 98 feet north from Line street, 4-inch Boston Machine.
 Curtis avenue, 206 feet west from Curtis street, 4-inch Boston Machine.
 Elm street, 8 feet south from Hall avenue, 6-inch Mathews.
 Fairmount avenue, 280 feet west from Curtis street, 6-inch Holyoke.
 Fremont street, opposite Meacham street, 6-inch Corey.
 Glass-house court, 360 feet west from Water street, 6-inch Mathews.
 Grove street, 163 feet south from Highland avenue, 6-inch Holyoke.
 Hall street, 269 feet west from Cedar street, 6-inch Holyoke.
 Jaques street, 10 feet west from Chauncey avenue, 4-inch Boston Machine.
 Jenny Lind avenue, 320 feet north from Vernon street, 6-inch Mathews.
 Joseph street, 100 feet west from Adrian street, 6-inch Mathews.
 Line street, 100 feet west from Smith avenue, 6-inch Mathews.
 Main street, junction with Broadway, 6-inch Mathews.
 Marion street, 31 feet south from Adrian street, 6-inch Mathews.
 Medford street, 31 feet south from Dartmouth street, 6-inch Holyoke.
 Medford street, 15 feet south from Lee street, 6-inch Mathews.
 Medford street, 16 feet south from Bartlett street, 6-inch Holyoke.
 Medford street, 56 feet north from Lowell street, 6-inch Mathews.
 Medford street, 266 feet north from Walnut street, 6-inch Walker.
 Monmouth street, 156 feet east from Harvard street, 6-inch Walker.
 Morrison avenue, 124 feet west from Cedar street, 6-inch Mathews.
 Morrison avenue, 44 feet east from Pearson avenue, 6-inch Mathews.
 Morrison avenue, 124 feet east from Rogers avenue, 6-inch Mathews.
 Myrtle street, 219 feet north from Pearl street, 6-inch Holyoke.
 Myrtle street, 218 feet north from Washington street, 6-inch Holyoke.
 Mystic avenue, 11 feet west from Chauncey avenue, 6-inch Mathews.
 Oxford street, 46 feet east from Trull lane, 6-inch Mathews.
 Park street, 69 feet south from Somerville avenue, 6-inch Mathews.
 Professors' row, 113 feet east from Curtis street, 4-inch Boston Machine.
 Professors' row, 3 feet west from Packard avenue, 6-inch Holyoke.
 Quincy street, 26 feet south from Summer street, 6-inch Holyoke.
 Quincy street, 91 feet north from Somerville avenue, 6-inch Mathews.
 Raymond avenue, 728 feet west from Curtis street, 6-inch Corey.
 School street, 31 feet south from Oakland avenue, 6-inch Mathews.
 Simpson avenue, 142 feet east from Holland street, 6-inch Mathews.
 Villa avenue, 121 feet south from Winslow avenue, 4-inch Boston Machine.
 Vine street, 32 feet south from Somerville avenue, 6-inch Corey.
 Washington street, 62 feet north from Line street, 6-inch Mathews.
 Washington street, 2 feet east from Bartlett street, 6-inch Holyoke.
 Washington street, 3 feet west from Murray street, 6-inch Holyoke.
 Washington street, 3 feet west from Waverley street, 6-inch Holyoke.
 William street, 8 feet east from Chandler street, 6-inch Holyoke.

Hydrants — Renewal Account.

The following changes have been made in the kind and location of hydrants :—

Adrian street, 4-inch Boston Machine hydrant, set 93 feet east from Marion street, and 4-inch Boston Machine hydrant removed from 106 feet east from Marion street.

- Beacon street, 6-inch Mathews hydrant, set 316 feet west from Greenwood terrace, and 4-inch Boston Machine hydrant removed from same location.
- Bow street, 6-inch Mathews hydrant, set 102 feet north from Warren avenue, and 4-inch Boston Machine hydrant removed from 83 feet east from Walnut street.
- Broadway, 6-inch Holyoke hydrant, set 252 feet west from Wilson avenue, and 6-inch Mathews hydrant removed from 171 feet west from Wilson avenue.
- Cedar street, 6-inch Holyoke hydrant, set 12 feet north from Highland avenue, and 6-inch Holyoke hydrant removed from same location.
- Chauncey avenue, 6-inch Holyoke hydrant, set 11 feet north from Broadway, and 4-inch Boston Machine hydrant removed from 8 feet north from Jaques street.
- Chestnut street, 6-inch Corey hydrant, set 480 feet south from Poplar street, and 4-inch Boston Machine hydrant removed from 538 feet south from Poplar street.
- Clark street, 6-inch Corey hydrant, set 412 feet west from Newton street, and 4-inch Boston Machine hydrant removed from same location.
- Cook street, 6-inch Mathews hydrant, set 74 feet north from Wyatt street, and 4-inch Boston Machine hydrant removed from same location.
- Curtis street, 4-inch Boston Machine hydrant, set 225 feet north from Professors' row, and 4-inch Boston Machine hydrant removed from 183 feet north from Professors' row.
- Flint street, 6-inch Mathews hydrant, set 30 feet west from Franklin street, and 6-inch Chapman hydrant removed from same location.
- Line street, 4-inch Boston Machine hydrant, set 272 feet west from Cooney street, and 4-inch Boston Machine hydrant removed from 496 feet west from Cooney street.
- Medford street, 6-inch Mathews hydrant, set 50 feet north from Hennessey court, and 6-inch Holyoke hydrant removed from same location.
- Medford street, 6-inch Chapman hydrant, set 5 feet north from School street, and 6-inch Chapman hydrant removed from corner of School street.
- Medford street, 6-inch Holyoke hydrant, set 19 feet south from Sycamore street, and 4-inch Boston Machine hydrant removed from 17 feet south from Sycamore street.
- Oxford street, 4-inch Holyoke hydrant, set 237 feet west from Hersey street, and 4-inch Boston Machine hydrant removed from 100 feet west from Hersey street.
- Oxford street, 4-inch Boston Machine hydrant, set 280 feet west from School street, and 4-inch Boston Machine hydrant removed from 362 feet west from School street.
- Park street, 6-inch Mathews hydrant, set 187 feet north from Beacon street, and 4-inch Bigelow hydrant removed from 146 feet north from Beacon street.
- Park street, 6-inch Holyoke hydrant, set opposite Allen court, and 4-inch Bigelow hydrant removed from 33 feet north from Fitchburg railroad.
- Pinckney street, 6-inch Mathews hydrant, set 330 feet south from Pearl street, and 4-inch Boston Machine hydrant removed from same location.
- Professors' row, 6-inch Boston Machine hydrant, set 296 feet west from Packard avenue, and 6-inch Boston Machine hydrant removed from 286 feet west from Packard avenue.
- Quincy street, 6-inch Mathews hydrant, set 381 feet north from Somerville avenue, and 4-inch Boston Machine hydrant removed from 340 feet south from Summer street.
- Sycamore street, 6-inch Holyoke hydrant, set 1 foot south from Forster street, and 4-inch Boston Machine hydrant removed from same location.

Ward street, 6-inch Mathews hydrant, set 3 feet east from Emery street, and 6-inch Chapman hydrant removed from same location.
Wyatt street, 6-inch Mathews hydrant, set 8 feet south from Taunton street, and 4-inch Boston Machine hydrant removed from 42 feet west from Cook street.

RECAPITULATION.

Number of public hydrants set in 1899	.	.	.	.	.	67
“ “ private “ “ “ “	.	.	.	.	.	0
						<hr/>
Total number of hydrants set in 1899	.	.	.	.	.	67
Number of hydrants removed in 1899	.	.	.	.	.	19
Net increase in number of public hydrants, 1899	.	.	.	.	.	48
“ “ “ “ “ private “ “	.	.	.	.	.	0
						<hr/>
Total net increase in number of hydrants, 1899	.	.	.	.	.	48
Total number of public hydrants in the city	.	.	.	.	.	870
“ “ “ private “ “ “ “	.	.	.	.	.	41
						<hr/>
Total number of all hydrants in the city January 1, 1900	.	.	.	.	.	911

Locations of Hydrants.

Adams street, 11 feet south from Broadway.
Adams street, 221 feet south from Broadway.
Adams street, 266 feet north from Medford street.
Adams street, 10 feet north from Medford street.
Adrian street, 93 feet east from Marion street.
Adrian street, 220 feet south from Joseph street.
Allen street, 9 feet north from Charlestown street.
Albion street, 74 feet west from Centre street.
Albion street, 396 feet west from Central street.
Albion street, 217 feet east from Lowell street.
Albion street, 421 feet east from Cedar street.
Aldersey street, 276 feet west from Walnut street.
Alpine street, 280 feet east from Cedar street.
Alpine street, 76 feet west from Princeton street.
Alpine street, 298 feet west from Lowell street.
Alston street, 212 feet east from Cross street.
Alston street, 10 feet west from Shawmut place.
Ames street, 123 feet west from Central street.
Appleton street, 3 feet east from Clifton street.
Appleton street, 41 feet west from Willow avenue.
Arlington street, 36 feet east from Hathorn street.
Arthur street, 29 feet south from Broadway.
Ash avenue, 300 feet north from Meacham street.
Ashland street, 268 feet south from Summer street.
Auburn avenue, 239 feet west from Cross street.
Auburn avenue, 481 feet west from Cross street.
Austin street, 81 feet south from Mystic avenue.
Austin street, 66 feet north from Benedict street.
Austin street, 2 feet north from Broadway.
Avon street, 233 feet east from Central street.
Avon street, 572 feet west from School street.
Banks street, 310 feet south from Summer street.
Bartlett street, 230 feet south from Broadway.
Bartlett street, 15 feet south from Ames street.
Bartlett street, 10 feet south from Robinson street.
Beacon street, 316 feet west from Greenwood terrace.
Beacon street, 10 feet east from Stanford terrace.

Beacon street, 46 feet west from Sacramento street.
Beacon street, 15 feet west from Kent street.
Beacon street, 4 feet west from Ivaloo street.
Beacon street, 68 feet east from Park street.
Beacon street, 18 feet east from Durham street.
Beacon street, 26 feet east from Washington street.
Beacon street, 90 feet east from Calvin street.
Beacon street, 194 feet east from Calvin street.
Beacon street, 28 feet west from Buckingham street.
Beacon street, 208 feet east from Buckingham street.
Beacon street, 6 feet east from Concord avenue.
Beech street, 4 feet south from Atherton street.
Beech street, 31 feet east from Spring street.
Belmont street, 206 feet north from Spring-hill terrace.
Belmont street, 241 feet north from Summer street.
Belmont street, 243 feet south from Summer street.
Belmont street, 10 feet north from Belmont place.
Belmont street, 222 feet south from Belmont place.
Belmont street, 185 feet north from Somerville avenue.
Benedict street, 33 feet east from Mystic street.
Bennett street, 166 feet east from Prospect street.
Benton road, 2 feet north from Cambria street.
Benton road, 28 feet south from Highland avenue.
Berkeley street, 8 feet east from Central street.
Berkeley street, 150 feet east from Hersey street.
Berkeley street, 28 feet west from School street.
Berkeley street, 212 feet west from Hersey street.
Billingham street, 126 feet north from William street.
Bolton street, 203 feet north from Houghton street.
Bolton street, 3 feet south from Oak street.
Bonair street, 26 feet west from Cross street.
Bonair street, 90 feet east from Autumn street.
Bonair street, 121 feet east from Arthur street.
Bonair street, 67 feet east from Dana street.
Bonair street, opposite Melvin street.
Bonair street, 117 feet east from Walnut street.
Bond street, 63 feet south from Jaques street.
Bonner avenue, 171 feet north from Washington street.
Boston avenue, 110 feet south from bridge over Mystic river.
Boston avenue, 492 feet north from Gove street.
Boston street, 207 feet west from Bigelow street.
Boston street, 87 feet east from Bigelow street.
Boston street, 6 feet north from High street.
Bow street, 102 feet north from Warren avenue.
Bow street, 23 feet west from Wesley park.
Bow street, 25 feet east from Bow-street place.
Bow street, 74 feet north from Walnut street.
Bowdoin street, 65 feet north from Fremont avenue.
Bradley street, 26 feet south from Veazie street.
Brastow avenue, 202 feet east from Porter street.
Brastow avenue, 115 feet west from Lowell street.
Broadway, 50 feet east from Mt. Pleasant street.
Broadway, 20 feet west from George street.
Broadway, 21 feet west from Broadway place.
Broadway, 83 feet east from Cutter street.
Broadway, 7 feet east from Glen street.
Broadway, 21 feet east from Rush street.
Broadway, 15 feet west from Cross street.
Broadway, 7 feet west from Autumn street.
Broadway, 6 feet west from Montgomery avenue.
Broadway, 33 feet west from Walnut street.
Broadway, 4 feet east from Sargent avenue.

Broadway, 3 feet west from Melvin street.
Broadway, 157 feet west from Grant street.
Broadway, 117 feet east from Marshall street.
Broadway, 62 feet west from Marshall street.
Broadway, 3 feet west from School street.
Broadway, corner Thurston street.
Broadway, 209 feet east from Central street.
Broadway, 104 feet west from Norwood avenue.
Broadway, 20 feet west from Farm lane.
Broadway, 288 feet east from Cedar street.
Broadway, opposite Cedar street.
Broadway, 5 feet east from Wilson avenue.
Broadway, 252 feet west from Wilson avenue.
Broadway, 115 feet west from Rogers avenue.
Broadway, 236 feet west from Liberty avenue.
Broadway, 175 feet west from Elm street.
Broadway, 6 feet west from Billingham street.
Broadway, 9 feet west from Packard avenue.
Broadway, 32 feet east from Westminster street.
Broadway, 237 feet east from Endicott avenue.
Broadway, 6 feet west from Endicott avenue.
Broadway, 9 feet west from Garrison avenue.
Broadway, 138 feet west from Waterhouse street.
Broadway, 330 feet west from Waterhouse street.
Broadway park, near the pond.
Brook street, 18 feet west from Rush street.
Browning road, 302 feet west from Sycamore street.
Browning road, 136 feet east from Central street.
Buckingham street, 2 feet south from Dimick street.
Burnside avenue, 259 feet north from Elm street.
Burnside avenue, 120 feet south from Summer street.
Cameron avenue, 166 feet south from Holland street.
Cameron avenue, opposite Mead street.
Cameron avenue, 26 feet south from Glendale avenue.
Campbell park, 258 feet west from Meacham street.
Cedar street, 226 feet south from Sartwell avenue.
Cedar street, 98 feet north from Sartwell avenue.
Cedar street, 61 feet north from Hall street.
Cedar street, 22 feet south from Highland avenue.
Cedar street, 12 feet north from Highland avenue.
Cedar street, 10 feet north from Albion street.
Cedar street, 124 feet south from Warwick street.
Cedar street, 50 feet north from Clyde street.
Cedar street, 24 feet south from Murdock street.
Cedar street, 270 feet south from Broadway.
Central street, 50 feet south from Broadway.
Central street, 6 feet north from Forster street.
Central street, 9 feet north from Vernon street.
Central street, 187 feet south from Vernon street.
Central street, 6 feet north from Albion street.
Central street, 1 foot south from Summer street.
Chandler street, 16 feet south from Broadway.
Chandler street, 206 feet north from Park avenue.
Chapel street, 14 feet east from Chandler street.
Charles street, 183 feet south from Washington street.
Charnwood road, 79 feet west from Gordonia road.
Chauncey avenue, 11 feet north from Broadway.
Chauncey avenue, 437 feet south from Mystic avenue.
Cherry street, 7 feet south from Sartwell avenue.
Cherry street, 254 feet north from Sartwell avenue.
Cherry street, 252 feet north from Summer street.
Cherry street, 26 feet south from Highland avenue.

Chester street, 15 feet north from Chester place.
Chestnut street, 480 feet south from Poplar street.
Chestnut street, 246 feet south from Poplar street.
Church street, 9 feet south from Summer street.
Church street, 300 feet south from Summer street.
Church street, 29 feet north from Somerville avenue.
Church street, 16 feet south from Somerville avenue.
City stables, east end of yard.
Claremon street, 255 feet south from Holland street.
Clarendon avenue, 253 feet south from Broadway.
Clarendon avenue, opposite house No. 66.
Clark street, 200 feet west from Newton street.
Clark street, 412 feet west from Newton street.
Clyde street, 250 feet east from Cedar street.
Clyde street, opposite Murdock street.
Columbia street, 3 feet south from Beach avenue.
Columbia street, 8 feet south from Columbia court.
College avenue, 700 feet north from Broadway.
Columbus avenue, 150 feet east from Bonner avenue.
Columbus avenue, 118 feet west from Bonner avenue.
Columbus avenue, 35 feet west from Stone avenue.
Columbus avenue, 8 feet east from Walnut street.
Concord avenue, 154 feet west from Prospect street.
Concord avenue, 76 feet east from Concord square.
Concord avenue, on east line of Knapp school.
Concord avenue, 313 feet east from Springfield street.
Concord avenue, 24 feet east from Springfield street.
Concord avenue, 7 feet east from Marion street.
Concord avenue, 6 feet south from Hammond street.
Concord avenue, 20 feet east from Wyatt street.
Conwell avenue, 20 feet west from Curtis street.
Conwell avenue, 460 feet west from Curtis street.
Conwell street, 6 feet south from Highland avenue.
Conwell street, 3 feet north from Francis street.
Cook street, 74 feet north from Wyatt street.
Cooney street, 98 feet north from Line street.
Cottage avenue, 206 feet west from Russell street.
Craigie street, 216 feet south from Summer street.
Craigie street, 232 feet north from Kimball street.
Craigie street, 77 feet south from Kimball street.
Craigie street, 126 feet north from Somerville avenue.
Crescent street, 80 feet south from Hadley place.
Crocker street, 4 feet south from Highland avenue.
Crocker street, north corner Crown street.
Cross street, north corner Otis street.
Cross street, 6 feet north from Pearl street.
Cross street, 32 feet north from Cross-street place.
Cross street, 62 feet north from Flint street.
Cross street, 16 feet north from Gilman street.
Cross street, 13 feet south from Auburn avenue.
Cross street, 39 feet north from Alston street.
Curtis avenue, 206 feet west from Curtis street.
Curtis street, 6 feet north from Broadway.
Curtis street, 3 feet south from Electric avenue.
Curtis street, 137 feet north from Ware street.
Curtis street, 3 feet south from Raymond avenue.
Curtis street, 34 feet south from Professors' row.
Curtis street, 225 feet north from Professors' row.
Cutter avenue, 11 feet south from Highland avenue.
Cutter square, 95 feet west from Cutter avenue.
Cutter street, 444 feet south from Broadway.
Dane avenue, 162 feet west from Leland street.

Dane avenue, 169 feet east from Dane street.
Dane street, 9 feet north from Tyler street.
Dane street, 260 feet south from Skehan street.
Dane street, 55 feet north from Skehan street.
Dartmouth street, 288 feet south from Broadway.
Dartmouth street, 53 feet south from Evergreen avenue.
Dartmouth street, 171 feet north from Medford street.
Day street, 10 feet south from Elm street.
Day street, 195 feet south from Herbert street.
Day street, 4 feet north from Orchard street.
Dell street, 255 feet west from Glen street.
Delaware street, 246 feet east from Aldrich street.
Derby street, 400 feet east from Temple street.
Dickinson street, 20 feet east from Beacon street.
Dover street, 203 feet south from Elm street.
Dover street, 312 feet north from Orchard street.
Dover street, 3 feet north from Orchard street.
Durham street, opposite Skehan street.
Durham street, 5 feet west from Hanson street.
Edmands street, 15 feet south from Broadway.
Ellsworth street, 7 feet west from Rush street.
Elm street, 59 feet west from Craigie street.
Elm street, 17 feet west from Porter street.
Elm street, 28 feet east from Linden avenue.
Elm street, 11 feet east from Mossland street.
Elm street, 9 feet west from Cedar street.
Elm street, 153 feet east from Cherry street.
Elm street, 110 feet west from Cherry street.
Elm street, 14 feet east from Burnside avenue.
Elm street, 104 feet east from Willow avenue.
Elm street, 20 feet east from St. James avenue.
Elm street, 9 feet west from Elston street.
Elm street, 90 feet west from Windom street.
Elm street, 25 feet west from Russell street.
Elm street, 11 feet west from Grove street.
Elm street, 82 feet west from Chester street.
Elm street, 12 feet north from Winter street.
Elm street, 6 feet south from Morrison street.
Elm street, 8 feet south from Hall avenue.
Elm street, 53 feet west from Francesca avenue.
Elm street, opposite Kenwood street.
Elm street, 100 feet west from Broadway.
Elmwood street, 9 feet south from Holland street.
Elmwood street, 300 feet north from Harrison street.
Eliot street, 3 feet east from Park street.
Endicott avenue, 422 feet south from Broadway.
Evergreen avenue, 8 feet east from School street.
Everett avenue, 5 feet west from Cross street.
Everett avenue, 9 feet east from Dana street.
Everett avenue, 449 feet west from Cross street.
Everett street, opposite Emerson street.
Fairlee street, 134 feet west from Cherry street.
Fairmount avenue, 280 feet west from Curtis street.
Fairmount avenue, opposite Watson street.
Farragut avenue, 258 feet south from Broadway.
Farragut avenue, 537 feet south from Broadway.
Fenwick street, 40 feet north from Broadway.
Fiske avenue, 120 feet east from Hinckley street.
Fitchburg street, 395 feet east from Linwood street.
Flint street, 18 feet east from Flint avenue.
Flint street, 59 feet east from Cross street.
Flint street, 30 feet west from Franklin street.

Florence street, 206 feet south from Perkins street.
Florence street, 7 feet south from Pearl street.
Florence street, 453 feet north from Washington street.
Forster street, opposite Tennyson street.
Fosket street, 6 feet west from Bay State avenue.
Francesca avenue, 305 feet east from Elm street.
Francesca avenue, 7 feet west from Liberty avenue.
Franklin street, 14 feet north from Arlington street.
Franklin street, 76 feet south from Webster street.
Franklin street, 156 feet south from Pearl street.
Franklin street, 80 feet south from Oliver street.
Franklin street, 87 feet south from Palmer avenue.
Franklin street, 29 feet north from Washington street.
Fremont street, 82 feet north from Main street.
Fremont street, 343 feet north from Main street.
Fremont street, opposite Meacham street.
Fremont street, 287 feet north from Meacham street.
Fremont street, 25 feet north from East Albion street.
Frost avenue, 75 feet east from Sherman street.
Fountain avenue, 280 feet west from Glen street.
Garden court, 357 feet south from Somerville avenue.
Garfield avenue, 24 feet south from Mystic avenue.
Garrison avenue, 235 feet south from Broadway.
Gibbens street, 202 feet west from Central street.
Gibbens street, 129 feet west from Benton avenue.
Gilman square, opposite Marshall street.
Gilman street, 103 feet east from Walnut street.
Gilman street, 143 feet east from Jasper street.
Gilman street, 8 feet west from Aldrich street.
Gilman street, 176 feet east from Aldrich street.
Gilman street, 295 feet west from Cross street.
Glass-house court, 360 feet west from Water street.
Glen street, 147 feet south from Broadway.
Glen street, 8 feet north from Brook street.
Glen street, 6 feet north from Webster street.
Glen street, 1 foot north from Flint street.
Glen street, 11 feet north from Fountain avenue.
Gorham street, 310 feet south from Holland street.
Gorham street, 67 feet north from Howard street.
Grand View avenue, 286 feet east from Vinal avenue.
Grant street, 2 feet north from Derby street.
Greene street, 295 feet south from Summer street.
Greenville street, 148 feet north from Boston street.
Greenville street, 33 feet north from High street.
Grove street, 163 feet south from Highland avenue.
Hall avenue, 310 feet east from Elm street.
Hall avenue, 306 feet west from Liberty avenue.
Hall avenue, 9 feet west from Liberty avenue.
Hall street, 269 feet west from Cedar street.
Hamlet street, 321 feet south from Highland avenue.
Hammond street, 30 feet west from Dickinson street.
Hancock street, 258 feet south from Summer street.
Hanson street, 12 feet south from Village street.
Hanson street, 9 feet south from Nevada avenue.
Hanson street, 6 feet south from Skehan street.
Harvard street, 13 feet north from Beech street.
Harvard street, 23 feet north from Harvard place.
Harrison street, 77 feet east from Kent street.
Harrison street (Ward 4), 4 feet east from Elmwood street.
Hawkins street, 50 feet north from Lake street.
Hawthorne street, 8 feet east from Cutter avenue.
Hawthorne street, 209 feet east from West street.

Heath street, 3 feet west from Temple street.
Heath street, 308 feet west from West street.
Heath street, 100 feet west from Bond street.
Heath street, 4 feet east from Fenwick street.
Heath street, 5 feet east from Moreland street.
Henderson street, 107 feet north from Wilton street.
Herbert street, 163 feet west from Chester street.
High street, 289 feet west from Boston street.
Highland avenue, 28 feet west from Hamlet street.
Highland avenue, 5 feet east from Walnut street.
Highland avenue, 262 feet west from Walnut street.
Highland avenue, 80 feet east from Vinal avenue.
Highland avenue, 41 feet west from Putnam street.
Highland avenue, 75 feet west from Prescott street.
Highland avenue, 114 feet west from School street.
Highland avenue, 410 feet west from School street.
Highland avenue, 112 feet west from Trull lane.
Highland avenue, 171 feet east from Central street.
Highland avenue, 214 feet east from Spring-hill terrace.
Highland avenue, 23 feet west from Spring-hill terrace.
Highland avenue, 20 feet west from Belmont street.
Highland avenue, 4 feet east from Tower street.
Highland avenue, 2 feet east from Porter street.
Highland avenue, 212 feet east from Cedar street.
Highland avenue, 35 feet east from Fanning avenue.
Highland avenue, 43 feet west from Lesley avenue.
Highland avenue, 3 feet west from Willow avenue.
Highland avenue, 6 feet west from Grove street.
Highland avenue, 218 feet west from Grove street.
Highland avenue, 64 feet east from Elm street.
Hinckley street, 106 feet south from Broadway.
Holland street, 39 feet west from Dover street.
Holland street, 8 feet west from B. & M. R. R. crossing.
Holland street, 5 feet east from Jay street.
Holland street, 3 feet east from Paulina street.
Holland street, 94 feet east from Claremon street.
Homer square, 200 feet west from Bonner avenue.
Houghton street, 82 feet west from Prospect street.
Houghton street, 3 feet west from Bolton street.
Houghton street, 10 feet west from Oak street.
Hudson street, 12 feet east from Waldo street.
Hudson street, opposite Benton road.
Hudson street, 294 feet east from Lowell street.
Hudson street, 362 feet west from Lowell street.
Hudson street, 675 feet west from Lowell street.
Ibbetson street, 256 feet north from Somerville avenue.
Ibbetson street, 6 feet south from Kimball street.
Irving street, 6 feet south from Broadway.
Irving street, 285 feet south from Broadway.
Irving street, 542 feet north from Holland street.
Irving street, 190 feet north from Holland street.
James street, 100 feet north from Pearl street.
Jaques street, 10 feet west from Chauncey avenue.
Jaques street, 8 feet west from Grant street.
Jaques street, 360 feet east from Temple street.
Jaques street, 185 feet west from Temple street.
Jaques street, 410 feet east from Bond street.
Jasper street, 5 feet south from Virginia street.
Jay street, 82 feet north from Howard street.
Jenny Lind avenue, 224 feet south from Broadway.
Jenny Lind avenue, 16 feet north from Vernon street.
Jenny Lind avenue, 320 feet north from Vernon street.

Jenny Lind avenue, 467 feet north from Vernon street.
Joseph street, 100 feet west from Adrian street.
Josephine avenue, 397 feet north from Morrison street.
Joy street, 34 feet south from Washington street.
Joy street, 502 feet south from Washington street.
Joy street, 271 feet north from Poplar street.
Kensington avenue, 6 feet north from Broadway.
Kent court, 205 feet west from Kent street.
Kidder avenue, 346 feet east from Elm street.
Kingman court, 282 feet south from Washington street.
Kingston street, 95 feet west from Thorndike street.
Knowlton street, opposite Morton street.
Lake street, 220 feet west from Hawkins street.
Lake street, 4 feet east from Carlton street.
Laurel street, 50 feet north from Greene street.
Laurel street, 8 feet north from Park place.
Lawrence street, 9 feet south from Richardson street.
Leland street, 14 feet south from Dane avenue.
Lexington avenue, 3 feet west from Fanning avenue.
Liberty avenue, 3 feet north from Kidder avenue.
Lincoln street, 174 feet north from Perkins street.
Lincoln avenue, 206 feet west from Mt. Vernon street.
Linden street, 31 feet north from Charlestown street.
Linden street, 237 feet south from Somerville avenue.
Linden avenue, 118 feet south from Gilson terrace.
Linden avenue, 255 feet south from Olive avenue.
Linden avenue, 30 feet north from Olive avenue.
Line street, 272 feet west from Cooney street.
Line street, 100 feet west from Smith avenue.
Linwood street, 385 feet south from Washington street.
Linwood street, 48 feet south from Lamson court.
Linwood street, 52 feet south from London street.
Linwood street, 2 feet south from Linwood place.
London street, 383 feet east from Linwood street.
Loring street, 273 feet north from Somerville avenue.
Lowell street, 1 foot north from Fiske avenue.
Lowell street, 183 feet south from Richardson street.
Lowell street, opposite Vernon street.
Lowell street, 3 feet south from Princeton street.
Lowell street, 163 feet south from Highland avenue.
Lowell street, 53 feet north from Crown street.
Lowell street, 16 feet north from Kimball street.
Madison street, 467 feet west from School street.
Main street, junction with Broadway.
Main street, 112 feet west from Mt. Vernon avenue.
Main street, west corner of Moreland street.
Mansfield street, 190 feet north from Somerville avenue.
Mansfield street, 189 feet south from Washington street.
Maple avenue, 294 feet east from School street.
Maple street, 7 feet south from Jackson street.
Maple street, 87 feet north from Poplar street.
Marion street, 31 feet south from Adrian street.
Marshall street, 80 feet south from Stickney avenue.
Marshall street, 30 feet north from Stickney avenue.
Marshall street, opposite Howe street.
Marshall street, 5 feet north from Evergreen avenue.
Marshall street, 104 feet south from Mortimer place.
Marshall street, 109 feet north from Oakland avenue.
Malloy court, 16 feet south from Somerville avenue.
Meacham street, 4 feet north from Orchard street.
Meacham street, 97 feet north from Kingston street.
Meacham street, 200 feet north from Lester terrace.

Meacham street, 14 feet west from Moreland street.
Mead street, 48 feet east from Claremon street.
Medford street, 50 feet north from Hennessey court.
Medford street, 56 feet north from Lowell street.
Medford street, 14 feet north from Jenny Lind avenue.
Medford street, 16 feet south from Bartlett street.
Medford street, 6 feet north from Central street.
Medford street, 19 feet south from Sycamore street.
Medford street, 15 feet south from Lee street.
Medford street, 46 feet south from Thurston street.
Medford street, 31 feet south from Dartmouth street.
Medford street, 5 feet north from School street.
Medford street, 184 feet north from Marshall street.
Medford street, 266 feet north from Walnut street.
Medford street, 17 feet south from Walnut street.
Medford street, 291 feet south from Walnut street.
Medford street, 8 feet south from Greenville street.
Medford street, 13 feet north from Prospect-hill avenue.
Medford street, 240 feet south from Prospect-hill avenue.
Medford street, opposite Chester avenue.
Medford street, 216 feet south from Washington street.
Medford street, 69 feet north from Jackson street.
Medford street, 21 feet north from Somerville avenue.
Medford street, 382 feet south from Somerville avenue.
Medford street, 220 feet north from Ward street.
Medford street, 55 feet north from Ward street.
Medford street, 91 feet south from Ward street.
Medford street, 46 feet south from South street.
Medford street, 17 feet south from Warren street.
Medford street, 220 feet south from Warren street.
Melrose street, 610 feet north from Mystic avenue.
Merriam street, 25 feet north from Charlestown street.
Miner street, 137 feet north from Vernon street.
Mondamin court, 272 feet west from Ivaloo street.
Monmouth street, 156 feet east from Harvard street.
Montrose street, 10 feet east from Sycamore street.
Montrose street, 399 feet west from School street.
Moore street, 21 feet north from Mead street.
Moore street, 22 feet south from Holland street.
Moore street, 335 feet south from Holland street.
Moreland street, 345 feet north from Meacham street.
Moreland street, 2 feet south from East Albion street.
Morrison avenue, 124 feet west from Cedar street.
Morrison avenue, 44 feet east from Pearson avenue.
Morrison avenue, 124 feet east from Rogers avenue.
Morrison street, 13 feet west from Newberne street.
Morrison street, 183 feet west from Clifton street.
Morrison street, 33 feet west from Grove street.
Mossland street, 114 feet north from Somerville avenue.
Munroe street, 203 feet east from Walnut street.
Murdock street, 204 feet east from Cedar street.
Murdock street, 610 feet east from Cedar street.
Mt. Vernon avenue, 156 feet north from Heath street.
Mt. Vernon avenue, 38 feet south from Heath street.
Mt. Vernon street, 246 feet north from Washington street.
Mt. Vernon street, 8 feet north from Pearl street.
Mt. Vernon street, 7 feet south from Perkins street.
Mt. Vernon street, 5 feet south from Broadway.
Mt. Pleasant street, 253 feet south from Broadway.
Myrtle street, 218 feet north from Washington street.
Myrtle street, 460 feet north from Washington street.
Myrtle street, 74 feet south from Pearl street.

Myrtle street, 219 feet north from Pearl street.
Mystic avenue, 90 feet east from Union street.
Mystic avenue, 3 feet west from Union street.
Mystic avenue, 438 feet east from Austin street.
Mystic avenue, 11 feet west from Chauncey avenue.
Mystic avenue, 60 feet west from Temple street.
Mystic avenue, 800 feet east from Moreland street.
Mystic avenue, 544 feet east from Moreland street.
Mystic avenue, 241 feet east from Moreland street.
Mystic street, 160 feet south from Washington street.
Nashua street, 190 feet south from Wilton street.
Newbury street, 15 feet south from Holland street.
Newbury street, 260 feet south from Holland street.
Newbury street, 558 feet south from Holland street.
Newbury street, 777 feet south from Holland street.
Newbury street, 200 feet north from Cambridge line.
New Cross street, 114 feet north from Broadway.
Newton street, 9 feet west from Joseph street.
Newton street, 9 feet east from Clark street.
Norfolk street, 27 feet south from Webster avenue.
Norfolk street, 227 feet south from Webster avenue.
North street, 18 feet north from Broadway.
North street, 453 feet north from Raymond avenue.
North street, 190 feet north from city bound No. 17.
North Union street, 287 feet north from Mystic avenue.
Oak street, 8 feet west from Prospect street.
Oak street, 315 feet north from Houghton street.
Oakland avenue, 192 feet east from School street.
Oliver street, 191 feet east from Cross street.
Oliver street, 15 feet east from Glen street.
Oliver street, 7 feet west from Franklin street.
Orchard street, 8 feet west from Russell street.
Orchard street, west corner Milton street.
Orchard street, 9 feet east from Chester street.
Otis street, 440 feet west from Cross street.
Otis street, 9 feet east from Dana street.
Otis street, 6 feet east from Wigglesworth street.
Oxford street, 280 feet west from School street.
Oxford street, 46 feet east from Trull lane.
Oxford street, 237 feet west from Hersey street.
Park avenue, 83 feet west from Elm street.
Park avenue, 10 feet west from Chandler street.
Park street, opposite Allen court.
Park street, 187 feet north from Beacon street.
Park street, 69 feet south from Somerville avenue.
Partridge avenue, 5 feet south from Broadway.
Partridge avenue, 26 feet north from Medford street.
Partridge avenue, 117 feet south from Medford street.
Partridge avenue, 421 feet south from Medford street.
Partridge avenue, 276 feet north from Vernon street.
Paulina street, 184 feet north from Holland street.
Paulina street, 288 feet south from Broadway.
Paulina street, 5 feet south from Broadway.
Pearl street, 50 feet west from Crescent street.
Pearl street, 7 feet north from Pinckney street.
Pearl street, 60 feet west from Hillside avenue.
Pearl street, 15 feet east from Delaware street.
Pearl street, 9 feet west from Glen street.
Pearl street, 30 feet west from Dana street.
Pearl street, 1 foot west from Wigglesworth street.
Pearl street, 6 feet west from Walnut street.
Pearl street, 110 feet east from Marshall street.

Perkins street, opposite Myrtle street.
Perkins street, 78 feet east from Florence street.
Perkins street, 24 feet east from Pinckney street.
Perkins street, 56 feet east from Perkins place.
Perkins street, 21 feet east from Mt. Pleasant street.
Pinckney street, 11 feet north from Washington street.
Pinckney street, 330 feet south from Pearl street.
Pinckney street, 203 feet north from Pearl street.
Pinckney street, 71 feet south from Pearl street.
Pleasant avenue, 256 feet west from Walnut street.
Prescott street, 330 feet south from Highland avenue.
Prescott street, 586 feet south from Highland avenue.
Prescott street, 257 feet north from Summer street.
Preston street, 350 feet west from School street.
Poplar street, 21 feet west from Joy street.
Porter street, 1 foot north from Mountain avenue.
Porter street, 282 feet south from Summer street.
Porter street, 24 feet north from Williams court.
Porter street, 8 feet north from Parker place.
Professors' row, 277 feet east from College avenue.
Professors' row, 126 feet west from College avenue.
Professors' row, 291 feet west from College avenue.
Professors' row, 548 feet east from Packard avenue.
Professors' row, 156 feet east from Packard avenue.
Professors' row, 3 feet west from Packard avenue.
Professors' row, 296 feet west from Packard avenue.
Professors' row, 113 feet east from Curtis street.
Prospect-hill avenue, 10 feet north from High street.
Prospect street, 135 feet north from Bennett street.
Prospect street, 35 feet south from Concord avenue.
Prospect street, 185 feet south from Oak street.
Prospect street, 403 feet south from Oak street.
Prospect street, 63 feet north from Houghton street.
Putnam street, 116 feet south from Highland avenue.
Putnam street, 420 feet south from Highland avenue.
Putnam street, 612 feet north from Summer street.
Putnam street, 308 feet north from Summer street.
Quincy street, 91 feet north from Somerville avenue.
Quincy street, 381 feet north from Somerville avenue.
Quincy street, 26 feet south from Summer street.
Raymond avenue, 728 feet west from Curtis street.
Richardson street, 11 feet west from Nashua street.
Richdale avenue, opposite Thurston street.
Robinson street, 325 feet west from Central street.
Rogers avenue, 255 feet north from Morrison avenue.
Rossmore street, 244 feet south from Washington street.
Rush street, 84 feet south from Pearl street.
Rush street, 11 feet north from Pearl street.
Rush street, 128 feet north from Brook street.
Sacramento street, 5 feet south from Miller street.
Sanborn avenue, 55 feet east from Walnut street.
Sargent avenue, 474 feet south from Broadway.
Sargent avenue, 361 feet west from Walnut street.
Sargent avenue, 95 feet west from Walnut street.
School street, 31 feet south from Oakland avenue.
School street, 100 feet south from Maple avenue.
School street, 6 feet south from Montrose street.
School street, 128 feet north from Highland avenue.
School street, 88 feet north from Oxford street.
School street, 15 feet north from Avon street.
School street, 100 feet south from Summer street.
School street, 93 feet south from Preston street.

School street, 61 feet north from Knapp street.
Sewall street, 311 feet west from Grant street.
Shawmut street, 9 feet west from Washington street.
Shawmut street, 153 feet west from Shawmut place.
Simpson avenue, 272 feet south from Broadway.
Simpson avenue, 142 feet north from Holland street.
Skehan street, 110 feet east from Hanson street.
Somerville avenue, 188 feet west from Mossland street.
Somerville avenue, 308 feet east from Mossland street.
Somerville avenue, 600 feet east from Mossland street.
Somerville avenue, 116 feet west from Elm street.
Somerville avenue, 9 feet east from Ibbetson street.
Somerville avenue, 77 feet east from Belmont street.
Somerville avenue, 14 feet west from Garden court.
Somerville avenue, 133 feet west from Kent street.
Somerville avenue, 13 feet west from Beech street.
Somerville avenue, 11 feet east from Central street.
Somerville avenue, 15 feet west from Laurel street.
Somerville avenue, 86 feet west from Granite street.
Somerville avenue, 38 feet west from Sherman street.
Somerville avenue, 185 feet west from Hawkins street.
Somerville avenue, 88 feet west from Quincy street.
Somerville avenue, 105 feet east from Carlton street.
Somerville avenue, 90 feet west from Prospect street.
Somerville avenue, 28 feet west from Linden street.
Somerville avenue, 9 feet east from Mystic street.
Somerville avenue, 94 feet west from Mansfield street.
Somerville avenue, 126 feet east from Medford street.
Somerville avenue, 88 feet east from Poplar street.
Somerville avenue, 464 feet east from Poplar street.
Somerville avenue, 153 feet west from Linwood street.
Somerville avenue, 20 feet east from F. R. R. crossing.
Somerville avenue, 262 feet west from Franklin court.
Somerville avenue, 23 feet east from Franklin court.
Somerville avenue, 100 feet west from Cambridge line.
South street, 97 feet west from Bedford street.
South street, 2 feet east from Harding street.
South street, 25 feet west from Hunting street.
South street, 80 feet west from Willow place.
Spring street, 10 feet south from Pitman street.
Spring street, 184 feet north from Beech street.
Springfield street, 140 feet south from Concord avenue.
Springfield street, 21 feet south from Dickinson street.
Springfield street, 177 feet south from Houghton street.
Spring-hill terrace, 333 feet south from Highland avenue.
Stickney avenue, 212 feet west from Marshall street.
Stone avenue, 120 feet north from Union square.
Stone avenue, 275 feet south from Columbus avenue.
Summer street, 148 feet east from Cutter avenue.
Summer street, opposite Elston street.
Summer street, west corner Gordinia road.
Summer street, 34 feet east from Banks street.
Summer street, 6 feet east from Cherry street.
Summer street, 6 feet east from Cedar street.
Summer street, 24 feet east from Linden avenue.
Summer street, opposite Craigie street.
Summer street, 35 feet east from Porter street.
Summer street, 4 feet east from Lowell street.
Summer street, 3 feet east from Belmont street.
Summer street, 1 foot west from Spring street.
Summer street, 53 feet west from Harvard street.
Summer street, 215 feet east from Harvard street.

Summer street, 59 feet east from Central street.
Summer street, 19 feet west from Laurel street.
Summer street, 52 feet west from Preston street.
Summer street, 191 feet west from School street.
Summer street, 8 feet east from School street.
Summer street, opposite Putnam street.
Summer street, 6 feet west from Vinal avenue.
Summit avenue, 231 feet east from Vinal avenue.
Sunnyside avenue, 99 feet west from Wigglesworth street.
Sycamore street, 18 feet south from Broadway.
Sycamore street, 62 feet south from Browning road.
Sycamore street, 1 foot south from Forster street.
Sycamore street, 200 feet north from Medford street.
Sycamore street, 174 feet south from Medford street.
Sydney street, 418 feet east from Temple street.
Talbot avenue, 488 feet east from Packard avenue.
Temple street, 4 feet north from Broadway.
Temple street, 123 feet south from Sewall street.
Temple street, 11 feet north from Jaques street.
Temple street, 6 feet south from Derby street.
Temple street, 5 feet south from Sydney street.
Tenney court, 306 feet north from Mystic avenue.
Tennyson street, 4 feet south from Medford street.
Tennyson street, 117 feet north from Pembroke street.
Thorndike street, 4 feet south from Holland street.
Thorndike street, 82 feet north from Kingston street.
Thorpe place, 269 feet south from Highland avenue.
Thurston street, 187 feet north from Medford street.
Thurston street, 160 feet south from Evergreen avenue.
Thurston street, 6 feet north from Evergreen avenue.
Thurston street, 348 feet north from Evergreen avenue.
Tower street, 18 feet north from Crown street.
Tremont street, 9 feet south from Webster avenue.
Tremont street, 454 feet south from Webster avenue.
Trull street, 3 feet south from Medford street.
Trull street, 276 feet south from Medford street.
Trull street, 522 feet north from Vernon street.
Trull street, 270 feet north from Vernon street.
Tufts street, 51 feet north from Washington street.
Tufts street, 150 feet south from Glen street.
Tufts street, 43 feet north from Glen street.
Tufts street, 53 feet south from Dell street.
Tufts street, 45 feet south from Cross street.
Tyler street, 31 feet east from Vine street.
Union square, 267 feet east from Webster avenue.
Union square, 15 feet east from Stone avenue.
Union square, in the square, opposite Hill building.
Union square, centre of square.
Union street, 3 feet north from Broadway.
Union street, 123 feet south from Mystic avenue.
Veazie street, 1 foot west from James street.
Vernon street, 72 feet west from Partridge avenue.
Vernon street, 1 foot east from Bartlett street.
Vernon street, 2 feet east from Miner street.
Victoria street, 255 feet south from Broadway.
Villa avenue, 121 feet south from Winslow avenue.
Vinal avenue, 10 feet north from Pleasant avenue.
Vinal avenue, 129 feet north from Aldersey street.
Vinal avenue, 206 feet north from Summer street.
Vinal avenue, 6 feet south from Highland avenue.
Vine street, 15 feet north from Beacon street.
Vine street, opposite Eliot street.

Vine street, 32 feet south from Somerville avenue.
Virginia street, 45 feet west from Aldrich street.
Waldo street, 6 feet north from Highland avenue.
Wallace street, 37 feet south from Broadway.
Wallace street, 395 feet south from Broadway.
Wallace street, 483 feet north from Park avenue.
Wallace street, 166 feet north from Park avenue.
Wallace street, 10 feet north from Holland street.
Walnut street, opposite Veazie street.
Walnut street, 87 feet north from Gilman street.
Walnut street, 88 feet south from Wellington avenue.
Walnut street, 31 feet north from Pleasant avenue.
Walnut street, 12 feet south from Boston street.
Walter street, 28 feet west from Walnut street.
Walter street, 50 feet west from Bradley street.
Ward street, 104 feet west from Medford street.
Ward street, 3 feet east from Emery street.
Ware street, 258 feet west from Curtis street.
Warren avenue, 5 feet north from Sanborn avenue.
Warren avenue, 48 feet north from Bow street.
Warren avenue, 7 feet south from Columbus avenue.
Warwick street, 426 feet east from Cedar street.
Washington street, 69 feet west from Crescent street.
Washington street, 3 feet west from Waverley street.
Washington street, west corner Mt. Vernon street.
Washington street, 3 feet west from Murray street.
Washington street, 2 feet east from Bartlett street.
Washington street, 6 feet west from Florence street.
Washington street, 15 feet west from Myrtle street.
Washington street, 18 feet east from Franklin avenue.
Washington street, 160 feet east from Franklin street.
Washington street, 50 feet east from Shawmut street.
Washington street, 37 feet east from Rossmore street.
Washington street, 78 feet east from Boston street.
Washington street, 28 feet west from Mystic street.
Washington street, 6 feet west from Clark place.
Washington street, 156 feet west from Bonner avenue.
Washington street, 6 feet east from Kingman court.
Washington street, 243 feet east from Parker street.
Washington street, 50 feet east from Bowdoin street.
Washington street, 9 feet east from Leland street.
Washington street, 175 feet west from Dane street.
Washington street, 45 feet east from Beacon street.
Washington street, 62 feet east from Line street.
Water street, 91 feet north from South street.
Water street, 254 feet north from South street.
Water street, 354 feet north from South street.
Waterhouse street, 24 feet south from Broadway.
Waterhouse street, 326 feet south from Broadway.
Waterhouse street, 630 feet south from Broadway.
Webster avenue, 93 feet south from Washington street.
Webster avenue, 12 feet south from Everett street.
Webster avenue, 25 feet north from Newton street.
Webster avenue, 63 feet north from Prospect street.
Webster avenue, 18 feet south from Prospect street.
Webster avenue, 78 feet north from Tremont street.
Webster avenue, 3 feet north from Beach avenue.
Webster avenue, 1 foot south from Columbia court.
Webster street, 25 feet east from Cross street.
Webster street, 9 feet east from Rush street.
Webster street, 10 feet west from Cutter street.
Wellington avenue, 15 feet west from Montgomery avenue.

Wesley park, 245 feet north from Bow street.
 West street, 2 feet north from Broadway.
 West street (Ward 4), 3 feet north from Highland avenue.
 West street (Ward 4), 140 feet north from Highland avenue.
 Westminster street, 156 feet south from Electric avenue.
 Westwood road, 90 feet west from Central street.
 Westwood road, 58 feet east from Benton road.
 Wheatland street, 129 feet north from Broadway.
 Wheatland street, 9 feet south from Jaques street.
 Wheatland street, 78 feet south from Mystic avenue.
 William street, 8 feet east from Chandler street.
 Willow avenue, 14 feet north from Summer street.
 Willow avenue, 3 feet north from Lexington avenue.
 Willow avenue, 46 feet south from Morrison street.
 Willow avenue, 42 feet south from Fosket street.
 Wilton street, 6 feet east from Nashua street.
 Wilton street, 10 feet east from Lawrence street.
 Windom street, 7 feet south from Summer street.
 Windsor road, 86 feet east from Willow avenue.
 Winslow avenue, 145 feet east from Elm street.
 Winslow avenue, 5 feet west from Grove street.
 Winter street, 130 feet east from Holland street.
 Winter-hill circle, 178 feet north from Broadway.
 Winthrop avenue, 7 feet north from Broadway.
 Woodbine street, 222 feet west from Centre street.
 Wyatt street, 8 feet south from Taunton street.
 Wyatt street, 324 feet east from Washington street.

PRIVATE HYDRANTS.

John P. Squire & Co.	7
North Packing and Provision Co.	11
Middlesex Bleachery	3
American Tube Works	2
Union Glass Works	1
Fitchburg Railroad	1
New England Dressed Meat and Wool Co.	6
Metropolitan Sewerage Pumping Station	1
Boston & Maine Railroad	8
Fresh Pond Ice Co.	1

Gates — Construction Account.

New gates have been set in the following locations:—

Allen court, 1½-inch gate, 5 feet out from north line, on west line of Park street.
 Bartlett street, 6-inch gate, 13 feet 4 inches out from north line, on east line of Medford street.
 Beacon street, 6-inch gate, 11 feet out from east line and 6 feet south from south line of Roseland street.
 Bow street and Union square, 8-inch gate, on hydrant branch 25 feet out from north line of square and 55 feet west from west line of Stone avenue.
 Bow street and Union square, 10-inch gate, 21 feet out from north line of square and 52 feet west from west line of Stone avenue.
 Bow street and Union square, 10-inch gate, 21 feet out from north line of square and 58 feet west from west line of Stone avenue.
 Bowers avenue, 6-inch gate, 7 feet out from west line, on south line of Elm street.
 Broadway, 12-inch gate, 20 feet out from south line, on west line of house No. 622.
 Broadway, 12-inch gate, 8 feet out from south line, on east line of Rogers avenue.

- Broadway, 6-inch gate, 8 feet out from south line and 5 feet west from east line of building No. 684.
- Broadway, 6-inch gate, 8 feet out from south line and 3 feet east from east line of Rogers avenue.
- Broadway, 6-inch gate, 20 feet out from south line and 4 feet west from west line of house No. 622.
- Broadway, 6-inch gate, 20 feet out from south line and 6 feet east from west line of house No. 622.
- Cambria street, 6-inch gate, 13 feet out from north line, on east line of Benton road.
- Cedar street, 12-inch gate, 10 feet out from east line, on north line of Highland avenue.
- Cedar street, 10-inch gate, 10 feet out from east line, on north line of Summer street.
- Cedar street, 10-inch gate, 10 feet out from east line, on south line of Highland avenue.
- Cedar street, 4-inch gate, 14 feet out from east line and 43 feet south from south line of Cedar avenue.
- Central street, 12-inch gate, 13 feet out from north line, on west line of Medford street.
- Chapel street, 8-inch gate, 13 feet out from south line, on east line of Chandler street.
- Chauncey avenue, 6-inch gate, 17 feet out from west line, on south line of Mystic avenue.
- Chauncey avenue, 8-inch gate, 17 feet out from west line and 7 feet north from north line of Jaques street.
- Cherry street, 2-inch gate, 3 feet out from water post located 161 feet south from Fairlee street.
- Chestnut street, 4-inch gate, 12 feet out from east line and 536 feet south from south line of Poplar street.
- Cooney street, 8-inch gate, 9 feet out from east line, on north line of Line street.
- Curtis street, 6-inch gate, 16 feet out from east line and 51 feet north from north line of house No. 54.
- Elm street, 12-inch gate, 20 feet out from east line, on north line of Morrison street.
- Elm street, 12-inch gate, 21 feet out from east line and 2 feet north from north line of Highland avenue.
- Elm street, 6-inch gate, 24 feet out from east line and 41 feet south from south line of Winslow avenue.
- Elm court, 2-inch gate, 6 feet out from south line, on west line of Villa avenue.
- Elmwood street, 6-inch gate, 9 feet out from west line, on south line of house No. 73.
- Evergreen avenue, 6-inch gate, 13 feet out from west line, on north line of School street.
- Glass-house court, 6-inch gate, 16 feet out from north line and 20 feet west from east line of Water street.
- Glendale avenue, 6-inch gate, 13 feet 4 inches out from north line, on east line of Yorktown street.
- Grove street, 8-inch gate, 13 feet out from east line, on south line of Highland avenue.
- Grove street, 8-inch gate, 13 feet out from east line, on north line of Highland avenue.
- Hersey street, 8-inch gate, 13 feet 4 inches out from east line, on north line of Berkeley street.
- Highland avenue, 10-inch gate, 20 feet out from north line and 10 feet west from east line of Cedar street.
- Jenny Lind avenue, 4-inch gate, 16 feet out from north line and 7 feet east from east line of Vernon street.
- Jenny Lind avenue, 6-inch gate, 18 feet out from north line and 22 feet east from west line of Medford street.

- Joseph street, 6-inch gate, 13 feet out from north line and 98 feet west from west line of house No. 28.
- Lincoln parkway, 10-inch gate, 45 feet out from west line, on south line of Washington street.
- Lincoln parkway, 8-inch gate, on west line of Clark street, in the parkway.
- Line street, 6-inch gate, 11 feet out from north line, on east line of Smith avenue.
- Line street, 6-inch gate, 11 feet out from north line, on east line of Washington street.
- Meacham street, 4-inch gate, 15 feet out from south line and 14 feet east from west line of Moreland street.
- Medford street, 12-inch gate, 18 feet out from west line, on north line of School street.
- Medford street, 12-inch gate, 21 feet out from west line, on south line of Central street.
- Medford street, 12-inch gate, 19 feet out from west line, on south line of Lee street.
- Medford street, 12-inch gate, 15 feet out from west line, on north line of School street.
- Medford street, 12-inch gate, 19 feet out from west line, on north line of Jenny Lind avenue.
- Medford street, 10-inch gate, 16 feet 8 inches out from east line, on south line of Walnut street.
- Medford street, 8-inch gate, 21 feet out from west line, on north line of Central street.
- Medford street, 8-inch gate, 18 feet out from west line and 19 feet south from north line of School street.
- Medford street, 8-inch gate, 15 feet out from west line and 19 feet south from north line of School street.
- Medford street, 6-inch gate, 22 feet out from west line and 4 feet north from north line of Central street.
- Medford street, 6-inch gate, 22 feet out from west line and 7 feet north from north line of Central street.
- Medford street, 6-inch gate, 21 feet out from west line and 13 feet south from north line of Lowell street.
- Medford street, 2-inch gate, 5 feet out from water post at Gilman square.
- Moreland street, 10-inch gate, 13 feet out from east line and 15 feet south from south line of Meacham street.
- Morgan street, 6-inch gate, 13 feet out from south line, on west line of Park street.
- Morrison avenue, 10-inch gate, 16 feet 8 inches out from north line, on west line of Cedar street.
- Morrison avenue, 10-inch gate, 16 feet 8 inches out from north line, on west line of Ayer avenue.
- Morrison avenue, 6-inch gate, 20 feet out from north line, on east line of Rogers avenue.
- Myrtle street, 8-inch gate, 14 feet out from east line and 22 feet south from south line of Myrtle court.
- Mystic avenue, 6-inch gate, 27 feet out from south line and 12 feet east from west line of Wheatland street.
- Norwood avenue, 6-inch gate, 21 feet west from east line of Medford street and 4 feet south from south line of Trull street.
- Oakland avenue, 6-inch gate, 13 feet out from west line, on south line of School street.
- Oxford street, 8-inch gate, 11 feet out from north line, on east line of Hersey street.
- Oxford street, 6-inch gate, 12 feet out from south line, on west line of Hersey street.

- Packard avenue, 12-inch gate, 60 feet east from east line of gate house and 14 feet south from south line of same.
- Park street, 6-inch gate, 19 feet out from east line and 99 feet south from south line of Allen court.
- Pearson road, 8-inch gate, 13 feet out from west line, on north line of Broadway.
- Prospect street, 10-inch gate, 18 feet out from south line and 1 foot east from east line of house No. 95.
- Roseland street, 2-inch gate, 13 feet 4 inches out from south line, on west line of Beacon street.
- School street, 6-inch gate, 17 feet out from west line, on north line of Summer street.
- School street, 6-inch gate, 25 feet out from south line and 15 feet east from west line of Evergreen avenue.
- Simpson avenue, 12-inch gate, 13 feet 4 inches out from north line, on east line of Holland street.
- Simpson avenue, 6-inch gate, 19 feet out from north line and 136 feet west from west line of house No. 59.
- Smith avenue, 6-inch gate, 8 feet out from west line and 1 foot north from north line of Line street.
- Somerville avenue, 12-inch gate, 10 feet out from south line and 10 feet east from east line of building No. 68.
- Stone court, 2-inch gate, 10 feet out from south line, on east line of Stone avenue.
- Summer street, 10-inch gate, 15 feet out from north line and 6 feet west from east line of Cedar street.
- Summer street, 6-inch gate, 20 feet out from north line and 24 feet west from east line of School street.
- Summer street, 6-inch gate, 14 feet out from north line and 33 feet west from east line of Vinal avenue.
- Victoria street, 6-inch gate, 13 feet 4 inches out from east line, on north line of Woodstock street.
- Villa avenue, 6-inch gate, 11 feet 8 inches out from west line, on south line of Winslow avenue.
- Vinal avenue, 6-inch gate, 13 feet out from east line, on north line of Summer street.
- Vine street, 10-inch gate, 13 feet 4 inches out from east line, on north line of Tyler street.
- Washington avenue, 2-inch gate, 7 feet out from east line, on north line of Washington street.
- Washington street, 10-inch gate, 20 feet out from north line, on east line of Bonner avenue.
- Washington street, 10-inch gate, 20 feet out from north line and 8 feet west from east line of Bonner avenue.
- Washington street, 10-inch gate, 17 feet out from north line and 5 feet west from east line of Bonner avenue.
- Washington street, 6-inch gate, 24 feet out from west line and 42 feet north from north line of Stone building.
- Washington street, 6-inch gate, 22 feet out from east line and 11 feet north from north line of Line street.
- Water street, 10-inch gate, 10 feet out from north line, on south line of Glass-house court.
- Waterhouse street, 8-inch gate, 13 feet 4 inches out from west line, on north line of Woodstock street.
- Willoughby street, 8-inch gate, 13 feet 4 inches out from north line, on east line of Central street.
- Woodstock street, 6-inch gate, 18 feet out from north line and 10 feet west from east line of Victoria street.
- Wyatt street, 6-inch gate, 25 feet out from south line, on east line of Lincoln parkway.

Wyatt street, 4-inch gate, 25 feet out from south line and 35 feet east from east line of Lincoln parkway.
 Yorktown street, 6-inch gate, 13 feet out from east line and 12 feet south from north line of Seven Pines avenue.

Gates — Renewal Account.

The following changes have been made in the size and location of main gates :—

Adrian street, 6-inch gate, set 13 feet out from south line, on east line of Marion street, and 6-inch gate removed from 13 feet out from south line and 100 feet east from east line of Marion street.
 Bartlett street, 12-inch gate, set 10 feet out from west line, on south line of Washington street, and 3-inch gate removed from 10 feet out from west line and 26 feet south from north line of Washington street.
 Berkeley street, 8-inch gate, set 13 feet out from north line and 31 feet east from east line of Hersey street, and 4-inch gate removed from 13 feet out from north line, on east line of Hersey street.
 Berkeley street, 6-inch gate, set 18 feet out from north line and 26 feet east from east line of Hersey street, and 4-inch gate removed from 20 feet out from north line and 20 feet east from east line of Hersey street.
 Broadway, 12-inch gate, set 20 feet out from south line, on west line of Cedar street, and 8-inch gate removed from 33 feet out from south line, on west line of Cedar street.
 Chapel street, 8-inch gate, set 13 feet out from south line, on west line of Elm street, and 4-inch gate removed from same location.
 Chauncey avenue, 8-inch gate, set 17 feet out from west line, on north line of Broadway, and 12-inch gate removed from same location.
 Conwell avenue, 10-inch gate, set 13 feet out from south line, on west line of Curtis street, and 4-inch gate removed from same location.
 Curtis avenue, 6-inch gate, set 13 feet out from south line, on west line of Curtis street, and 4-inch gate removed from same location.
 Curtis street, 8-inch gate, set 13 feet out from east line and 45 feet north from south line of Professors' row, and 6-inch gate removed from 13 feet out from east line and 20 feet north from south line of Professors' row.
 Elm street, 6-inch gate, set 20 feet out from east line, on north line of Chapel street, and 6-inch gate removed from 20 feet out from east line and 6 feet south from north line of Chapel street.
 Essex street, 6-inch gate, set 13 feet out from south line, on west line of Medford street, and 4-inch gate removed from same location.
 Eustis street, 1-inch gate, set 10 feet out from west line and 8 feet north from south line of Beacon street, and 1-inch gate removed from same location.
 Fairmount avenue, 8-inch gate, set 13 feet out from north line, on west line of Curtis street, and 4-inch gate removed from same location.
 Fairmount avenue, 4-inch gate, set 14 feet out from north line and 11 feet west from west line of Watson street, and 4-inch gate removed from 14 feet out from north line, on west line of Watson street.
 Fremont street, 8-inch gate, set 13 feet 4 inches out from west line, on south line of Meacham street, and 6-inch gate removed from 13 feet 4 inches out from west line and 100 feet south from south line of Meacham street.
 Hall street, 6-inch gate, set 10 feet out from north line, on west line of Cedar street, and 4-inch gate removed from same location.

- Hudson street, 8-inch gate, set 13 feet out from north line, on east line of Cedar street, and 4-inch gate removed from same location.
- Jenny Lind avenue, 8-inch gate, set 13 feet out from north line, on west line of Medford street, and 4-inch gate removed from same location.
- Jenny Lind avenue, 6-inch gate, set 13 feet out from north line, on east line of Medford street, and 4-inch gate removed from same location.
- Lowell street, 10-inch gate, set 13 feet out from north line, on west line of Medford street, and 6-inch gate removed from same location.
- Main street, 10-inch gate, set 16 feet out from east line and 122 feet north from north line of Sycamore street, and 6-inch gate removed from 16 feet out from east line, on north line of Broadway.
- Main street, 6-inch gate, set 16 feet out from east line, on north line of Moreland street, and 6-inch gate removed from 16 feet out from east line and 20 feet south from north line of Moreland street.
- Marion street, 8-inch gate, set 13 feet 4 inches out from east line, on north line of Concord avenue, and 6-inch gate removed from same location.
- Medford street, 12-inch gate, set 19 feet out from west line, on south line of Broadway, and 12-inch gate removed from 19 feet out from west line, on north line of Hennessey court.
- Medford street, 12-inch gate, set 19 feet out from west line and 2 feet north from north line of Central street, and 12-inch gate removed from 19 feet out from west line and 14 feet north from north line of Central street.
- Medford street, 12-inch gate, set 19 feet out from west line, on south line of Central street, and 8-inch gate removed from 19 feet out from west line and 40 feet south from south line of Central street.
- Medford street, 12-inch gate, set 16 feet out from west line, on south line of Lee street, and 12-inch gate removed from 16 feet out from west line, on south line of Sycamore street.
- Monmouth street, 6-inch gate, set 13 feet out from south line, on east line of Harvard street, and 2-inch gate removed from same location.
- Moreland street, 10-inch gate, set 13 feet out from south line, on east line of Main street, and 6-inch gate removed from same location.
- Myrtle street, 8-inch gate, set 18 feet out from east line, on south line of Perkins street, and 8-inch gate removed from same location.
- Norwood avenue, 6-inch gate, set 13 feet out from south line, on east line of Medford street, and 4-inch gate removed from same location.
- Oxford street, 6-inch gate, set 12 feet out from south line, on east line of Central street, and 4-inch gate removed from 14 feet out from south line, on east line of Central street.
- Packard avenue, 12-inch gate, set 17 feet out from east line, on south line of Professors' row, and 12-inch gate removed from 17 feet out from east line and 12 feet south from south line of Professors' row.
- Park street, 12-inch gate, set 17 feet out from east line, on north line of Beacon street, and 6-inch gate removed from same location.
- Park street, 12-inch gate, set 17 feet out from east line, on north line of Ivaloo street, and 6-inch gate removed from same location.
- Partridge avenue, 6-inch gate, set 13 feet out from north line, on east line of Medford street, and 6-inch gate removed from same location.
- Professors' row, 8-inch gate, set 18 feet out from south line, on west line of Packard avenue, and 6-inch gate removed from same location.
- Professors' row, 8-inch gate, set 18 feet out from south line, on east line of Curtis street, and 6-inch gate removed from same location.
- Quincy street, 8-inch gate, set 13 feet 8 inches out from west line, on south line of Summer street, and 6-inch gate removed from same location.
- Sycamore street, 8-inch gate, set 14 feet out from north line, on east line of Medford street, and 4-inch gate removed from same location.
- Taunton street, 6-inch gate, set 7 feet out from south line, on west line of Marion street, and 3-inch gate removed from 3 feet out from south line, on west line of Marion street.

Villa avenue, 4-inch gate, set 11 feet 8 inches out from west line and 2 feet north from south line of Elm court, and 4-inch gate removed from 11 feet out from west line and 3 feet north from south line of Elm court.

Washington street, 6-inch gate, set 20 feet out from east line, on south line of Beacon street, and 4-inch gate removed from same location.

Waverley street, 6-inch gate, set 12 feet out from west line, on south line of Washington street, and 4-inch gate removed from same location.

Webster avenue, 16-inch gate, set on east line, 13 feet out from north line of Glass-house court, and 16-inch gate removed from east line, 13 feet out from south line of Glass-house court.

Winslow avenue, 8-inch gate, set 13 feet out from south line, on east line of Elm street, and 4-inch gate removed from same location.

Broadway, 8-inch gate removed from 36 feet out from south line, on west line of Cedar street.

Curtis avenue, 2-inch gate removed from 13 feet out from south line and 150 feet west from west line of Curtis street.

Union square, 8-inch gate removed from hydrant branch in square.

RECAPITULATION.

GATES.	1"	1 1-2"	2"	3"	4"	6"	8"	10"	12"	16"	Total.
Set	1	1	6	7	58	31	21	23	1	149	
Removed	1	2	2	19	15	5	5	5	1	50	

Net increase in number of gates in 1899 99

Total number of gates in the city January 1, 1900 . 1,134

Locations of Water Posts.

Albion street, 33 feet west from Centre street.

Appleton street, 49 feet west from Willow avenue.

Beacon street, 160 feet west from Buckingham street.

Beacon street, 33 feet west from Vine street.

Beacon street, 94 feet east from Sacramento street.

Bond street, 14 feet north from Broadway.

Boston street, 107 feet west from Greenville street.

Broadway, 42 feet east from Franklin street.

Broadway, 75 feet west from Winthrop avenue.

Broadway, 6 feet west from Farm lane.

Broadway, 193 feet east from Willow avenue.

Broadway, 6 feet west from Irving street.

Broadway, 120 feet west from Clarendon avenue.

Broadway, 20 feet west from North street.

Cherry street, 161 feet south from Fairlee street.

Columbus avenue, opposite Stone avenue.

Concord avenue, opposite Knapp school.

Elm street, 25 feet west from Burnside avenue.

Elm street, opposite Morrison street.

Elm street, 5 feet south from Kenwood street.

Flint street, 47 feet east from Cross street.

Gilman street, 69 feet east from Walnut street.

Grove street, 19 feet south from Highland avenue.

Highland avenue, 44 feet west from Hamlet street.

Highland avenue, 50 feet west from Putnam street.
Highland avenue, 15 feet west from Central street.
Highland avenue, 42 feet east from Crocker street.
Holland street, 30 feet west from Elmwood street.
Jaques street, 159 feet west from Grant street.
Laurel street, 20 feet south from Summer street.
Linwood street, 70 feet west from Poplar street.
Medford street, at Gilman square.
Medford street, 45 feet east from Lee street.
Medford street, 19 feet east from Jenny Lind avenue.
Montrose street, 204 feet west from School street.
Mystic avenue, 33 feet west from Union street.
Orchard street, 107 feet west from Dover street.
Otis street, 127 feet west from Cross street.
Pearl street, 28 feet east from Myrtle street.
Putnam street, 96 feet north from Summer street.
School street, 116 feet south from Broadway.
School street, 50 feet north from Berkeley street.
Somerville avenue, 175 feet east from Fitchburg R. R. crossing.
Somerville avenue, 246 feet east from Poplar street.
Somerville avenue, 89 feet east from Mystic street.
Somerville avenue, 119 feet west from School street.
Somerville avenue, 92 feet west from Kent street.
Somerville avenue, 42 feet east from Mossland street.
Summer street, 14 feet east from Belmont street.
Summer street, 32 feet east from Cedar street.
Summer street, 35 feet east from Cutter avenue.
Tufts street, 114 feet east from Cross street.
Washington street, 96 feet west from Myrtle street.
Washington street, 7 feet west from Boston street.
Washington street, 34 feet west from Union square.
Washington street, opposite Leland street.
Wheatland street, 30 feet south from Mystic avenue.
Webster avenue, 68 feet north from Tremont street.

METER TABLE.

SHOWING THE NUMBER OF METERS SET, THE PURPOSE FOR WHICH THEY ARE USED, AND THE INCOME RECEIVED.

PURPOSE.	Number.	Meters Set.	Meters Removed.	Amount Received.
Apartment Houses and Tenements .	10	12	1	\$813 59
Bacon Works	4	4	1	161 08
Bakeries	2	2		63 56
Bleachery and Dye Works	1	1		414 60
Boarding-houses	4	4		85 02
Bottling Works	1	1		41 58
Bowling Alleys	1	1		12 50
Carhouses	4	6	1	659 86
Churches	1	1		15 12
Clubhouses	2	2		52 92
Coal Wharves	2	2		276 76
Colleges	1	10		105 12
Distilleries	1	1		264 36
Electric Light Stations	1	1		1,793 04
Elevator Clocks	1	1		431 00
Factories	20	22		2,889 77
Fire Stations	8	8		393 45
Foundries	2	2		85 68
Glass Works	2	2		170 21
Grain Elevators	1	1		47 46
Greenhouses	1	2		105 57
Halls	1	1		4 34
Hospitals	2	3		160 34
Hotels	3	3		264 23
Machine Shops	1	1		21 56
Milk Business	2	2		56 42
Motor Clocks	6	6		52 36
Offices and Stores	18	18		896 42
Photograph Studios	1	1		165 30
Pickle and Preserving Works	2	3	1	304 76
Poultry Farms	2	2		80 22
Printing Offices	1	1		55 02
Public Buildings	4	4		131 06
Pumping Stations	1	1		245 76
Railway Stations	4	4		191 90
Railway Yards	2	2		12,279 76
Schoolhouses	25	24		1,883 22
Slaughtering and Rendering Establishments	6	19	1	17,472 88
Soap Works	2	2		202 52
Stables	49	49		2,013 33
Steam Engines	2	2	1	72 38
Vinegar Works	2	4	1	201 55
Wood Yards	2	2		95 89
		240	7	\$45,733 47

Maintenance of Street Mains.

The following bursts and leaks on street mains occurred in 1899:—

BURSTS.

	SIZE OF MAIN.	NUMBER.
	2"	1
	3"	1
	4"	2
	6"	3
	8"	2
	10"	1
	12"	3
Total		13

LEAKS.

	SIZE OF MAIN.	NUMBER.
	4"	1
	6"	5
	10"	1
	12"	1
	20"	2
Total		10

Water Services.

SERVICE CONSTRUCTION.

Two hundred and forty-seven new service connections were made in 1899, as follows :—

Owners' applications received in 1899	245
Transferred from City of Cambridge main in Rose- land street	2
	<hr/> 247

The following table shows the sizes and lengths laid :—

	SIZE.	NUMBER.	LENGTH.
	1½"	2	289 feet
	1"	3	195 "
	¾"	242	8,831 "
Total . . .		247	9,315 feet.

Total number of service pipes laid to January 1, 1900, 10,053.

Total length of service pipe used in making service connec-
tions, 63 miles, 2,241 feet.

SERVICE MAINTENANCE.

Leaks repaired on service pipes	180
Iron service boxes set	143
New service gates set on old connections	81
Services cleaned of sediment, fish, etc.	58
Services replaced at city's expense on account of de- fective pipe and fittings	9

**Valuation of Property under control of the Water Commissioners,
December 31, 1899.**

81 miles, 3,583 feet of iron and cement distribution mains		
1,134 gates and boxes set in connection therewith		
870 fire hydrants set in connection therewith		
58 water posts set in connection therewith		
230 water meters set in connection therewith		
Department building and grounds		32,000 00
High-service pumps and boilers		10,000 00
Department building furniture		931 10
Office furniture		1,719 05
Books, stationery, etc.		200 00
Tools		3,155 66
Horses		600 00
Wagons, sleighs, etc.		830 00
Harnesses, robes, etc.		329 50
Hay and grain		45 33
Stable equipment		121 45
Main pipe		655 48
Special castings and fittings		2,398 01
Gates and boxes		272 25
Pig lead		15 00
Service pipe and fittings		2,414 51
Meters and fittings		988 97
		<hr/>
		\$791,676 31

The Board is also in control of 63 miles, 2,241 feet of service pipes, with 10,053 connections, the cost of which has been paid to the city by the owners of properties connected to the water mains.

REPORT OF ENGINEER AT PUMPING STATION.

HIGH SERVICE PUMPING STATION,
SOMERVILLE, DECEMBER 31, 1899. }

To the Board of Water Commissioners:—

Gentlemen,—The following table shows the work done at the high service pumping station for the year ending December 31, 1899:—

Date, 1899.	No. of Days.	Pumping Time in Hours.	No. of Revolutions.	Gallons of Water Pumped.	Pounds of Coal Burned.	Pounds of Ashes and Clinkers.
Jan. . .	31	460	826,000	39,648,000	105,150	9,052
Feb. . .	28	488	977,000	46,896,000	100,325	11,925
March . .	31	434	870,000	41,760,000	100,275	9,650
Apr. . .	30	490	956,000	45,888,000	100,625	11,500
May . .	31	726	1,488,000	71,424,000	138,325	19,675
June . .	30	720	1,354,500	65,016,000	119,200	18,200
July . .	31	736	1,295,500	62,184,000	121,050	14,590
Aug. . .	31	726	1,218,000	58,464,000	103,150	14,300
Sept. . .	30	716	1,557,500	74,760,000	154,000	16,150
Oct. . .	31	715	1,605,500	77,064,000	169,950	16,775
Nov. . .	30	635	1,469,000	70,512,000	171,125	16,950
Dec. . .	31	680	1,403,000	67,344,000	182,350	21,875
Total . .	365	7,526	15,020,000	720,960,000	1,565,525	180,642

The number of gallons pumped per revolution is figured at forty-eight, as in previous years, and the total pumpage is based on that quantity, this being slightly in excess of the estimate of 45.8 gallons made by the engineer of the Metropolitan Water Board.

The pump has practically been run continuously since May. There has been no break-down or interruption to the service, except temporarily in the month of October, when the feed pump was overhauled and new piston rods, plunger rings, and minor parts put in, and again in December, when the valve motion of the pumping engine was repaired. The boilers have been regularly inspected by the Hartford Steam Boiler Inspection & Insurance Co., and they, together with all their appurtenances, are reported in good order. The entire pumping plant is now in excellent condition.

SIDNEY E. HAYDEN, Engineer.

REPORT OF THE BOARD OF HEALTH.

OFFICE OF THE BOARD OF HEALTH, }
CITY HALL, January 2, 1900. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—We respectfully submit the following as the twenty-second annual report of the Board of Health, in which is presented a statement, tabulated and otherwise, of the sanitary condition of the city and the business of the Board for the year ending December 31, 1899:—

Organization.

ALLEN F. CARPENTER, Chairman.

• WILLIAM P. MITCHELL, Clerk.

CALEB A. PAGE, Agent.

Agent to Inspect Animals and Provisions,

(Acts of 1899, Chap. 408.)

CHARLES M. BERRY.

Superintendent Collection of Ashes and Offal,

GEORGE W. S. HUSE.

Additional Duties.

The important and constantly-increasing work of the Board of Health, due to the rapid growth of the city, and the increase of duties devolving upon it by legislative acts of the past few years, is a matter which few, outside of the Health Department, realize. Some of these added duties are the licensing of the occupation and the oversight of the construction of stables, the licensing of undertakers, action required for the prevention and control of contagious and infectious diseases, and the inspection of animals and the slaughtering thereof, and of provisions, stores, and bakeries.

Inspection of Animals and Provisions.

Chapter 408 of the Acts of the Legislature of the year 1899 imposed upon this Board the duties theretofore devolving upon the Inspector of Animals and Provisions, except so far as they related to the duties, rules, and regulations of the Board of Cattle Commissioners, as defined in said chapter.

The effect of this law was, in brief, to require this Board to attend to the inspection of cattle and calves to be slaughtered for food, the inspection of the carcasses of such animals after slaughter, and the inspection of all perishable provisions, fruits, and vegetables kept or offered for sale.

Charles M. Berry, who had been appointed by the Mayor and Aldermen inspector of animals, under another provision of the chapter just referred to, was appointed June 16 an agent of this Board, to assist in carrying out its new duties.

Mr. Berry had served for several years as Inspector of Animals and Provisions, and, under the two appointments given him by the Mayor and Aldermen and this Board, his duties remained the same as before.

His report as Inspector of Animals and Provisions, covering the period of the entire year, will be found elsewhere in this volume.

Nuisances.

A record of nuisances abated during the year, in compliance with notices issued by the Board, or under the Board's direction, is presented in the following table:—

Nuisances Abated in Each District in 1899.

(SEE DESCRIPTION OF DISTRICTS IN LATTER PART OF THIS REPORT.)

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Total.
Population (estimated).	7,404	5,891	5,024	5,928	11,498	6,404	7,144	3,208	4,303	3,196	60,000
Cellar damp	3	4	6	4	3	1	2	.....	3	2	28
Cesspool offensive . . . . .	.....	1	1	.....	3	2	2	2	2	6	19
Cow barn offensive	2	1	2	1	.....	1	.....	1	1	1	10
Drainage defective	5	3	1	4	3	4	8	13	3	6	50
Drainage emptying into cellar .	2	.....	1	3	2	1	.....	2	4	2	17
Drainage emptying on surface .	2	4	1	6	5	2	16	6	1	.....	43
Fish offal	1	2	1	1	2	1	1	.....	1	2	12
Goats kept without license . .	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
Hennery offensive	2	1	2	3	1	.....	5	1	.....	2	17
Hens kept in cellar . . . . .	.....	.....	1	.....	.....	.....	.....	.....	1	.....	2
Horse in cellar . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Manure exposed and offensive .	22	1	6	2	4	8	4	2	2	1	52
Manure pit defective	11	3	4	.....	1	4	1	1	6	.....	31
Offal on land	12	5	5	6	1	3	4	1	6	1	44
Offensive odor in and about dwellings	3	2	1	.....	1	2	2	2	1	3	17
Pigeons kept in cellar . . . .	.....	.....	.....	.....	1	.....	.....	1	.....	.....	2
Pigs kept without license . . .	1	.....	.....	1	.....	3	.....	1	.....	.....	6
Premises filthy	4	1	1	2	.....	2	1	1	2	1	15
Premises untidy	36	5	10	10	6	8	9	4	7	2	97
Privy-vault defective	6	1	.....	1	.....	2	.....	.....	.....	.....	10
Privy-vault offensive	29	6	.....	5	2	4	3	.....	1	1	51
Rabbits in cellar	1	.....	.....	1	.....	1	.....	1	.....	.....	4
Rubbish in cellar	4	3	2	3	2	4	4	1	2	1	26
Sewage-gas in house	5	4	2	3	1	3	2	1	2	1	24
Slops thrown on surface	4	1	2	4	1	1	.....	.....	1	1	15
Stable infected with glanders .	9	4	1	3	.....	2	3	4	4	.....	30
Stable and stable premises filthy and offensive	17	3	7	3	3	6	6	5	5	.....	55
Stable without drainage	5	3	3	2	2	2	3	1	3	1	25
Stagnant water on surface . . .	3	.....	2	1	4	2	2	3	2	2	21
Waste-pipe defective	11	6	8	8	4	5	6	3	4	3	58
Waste-pipe not trapped	2	3	2	1	2	2	2	1	1	2	18
Water-closet defective	6	2	8	6	5	7	3	3	4	3	47
Water-closet insufficiently supplied with water	4	1	1	2	3	1	5	.....	.....	1	18
Water-closet offensive	3	.....	1	2	1	1	1	2	1	3	15
Water in cellar	2	1	7	3	2	6	3	.....	1	1	26
Water under stable	6	1	2	2	2	1	.....	1	1	1	17
Total	223	72	91	93	67	92	98	65	73	51	925

Number of nuisances abated	925
Number of nuisances referred to Board of 1900	112
Number of nuisances complained of	1,037
Number of complaints (many covering more than one nuisance)	569
Number of notices mailed	568
Number of notices served by constables	2

In addition to the above, 175 dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the Board, of which no record has been made. Each spring the whole city is examined, and cellars, yards, and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders.—Twenty-nine cases of glanders have occurred during the year. Prompt action was taken in every case, and twenty-eight of the horses were killed, the other being released from quarantine by order of the Cattle Commissioners.

Permits.

The record of permits to keep cows and swine, to collect grease, and to remove manure is as follows:—

Cows.—Twenty-two applications were received for permits to keep 152 cows. Twenty-one permits to keep 150 cows were granted, and one permit was refused.

Swine.—Fourteen applications were received for permits to keep twenty-three swine. Eleven permits were granted to keep eighteen swine, and three permits were refused. The fee is one dollar for each swine.

Goats.—Two applications were received for permits to keep two goats. Both were granted. The fee is one dollar for each goat.

Grease.—Twelve applications were received for permits to collect grease, all of which were granted. The fee is two dollars. Three of the parties licensed reside in Somerville, two in Charlestown, three in Cambridge, two in Boston, one in Malden, and one in Chelsea.

Manure.—Ten permits were issued during the year for the carting of manure through the streets of the city in the daytime, between May 1 and November 1. All permits issued for the removal of manure from the stables in the city in the daytime, or for carting through the streets of the city, remain in force until revoked. No fee is charged for these permits.

Peddlers.

One hundred and forty-seven certificates of registration were issued to hawkers and peddlers during the year under the provisions of ordinance No. 30,—a decrease of twenty from the year 1898. Each peddler is required to present a writing from the Sealer of Weights and Measures, showing that his measures have been properly sealed, before a certificate is issued to him. Peddlers are also required to present their vehicles for inspection by the agent of the Board at the Police Station the first Monday of each month, so that he may see that they are kept in a clean condition, and are properly marked with the owner's name and number.

Ashes.

During the past year the ashes have been removed by this department with teams owned and men hired by the city, under a competent superintendent, who also superintends the collection of house offal.

Thirteen men, with ten horses and eight carts, are employed in the work.

The number of loads collected each month during the year was as follows:—

January	.	.	.	.	.	.	.	.	.	2,438
February	.	.	.	.	.	.	.	.	.	2,482
March	.	.	.	.	.	.	.	.	.	1,925
April	.	.	.	.	.	.	.	.	.	2,946
May	.	.	.	.	.	.	.	.	.	2,511
June	.	.	.	.	.	.	.	.	.	2,386
July	.	.	.	.	.	.	.	.	.	1,516
August	.	.	.	.	.	.	.	.	.	1,432
September	.	.	.	.	.	.	.	.	.	1,792
October	.	.	.	.	.	.	.	.	.	1,900
November	.	.	.	.	.	.	.	.	.	2,335
December	.	.	.	.	.	.	.	.	.	2,430
Total	.	.	.	.	.	.	.	.	.	26,093

The collections are made weekly, as follows:—

Monday	.	.	.	.	.	.	in district one.
Tuesday	.	.	.	.	.	.	" two.
Wednesday	.	.	.	.	.	.	" three.
Thursday	.	.	.	.	.	.	" four.
Friday	.	.	.	.	.	.	" five.
Saturday	.	.	.	.	.	.	" six.

Materials for removal must be free from filth and offal, must be placed in barrels or boxes, and must be set on the outer edge of the sidewalk before seven o'clock in the morning of the day when the collection is to be made.

The districts were established by the Board of Health of 1890, and are bounded as follows:—

District 1.—Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Highland avenue, the easterly line of Medford street, the northerly line of Washington street, the northwesterly line of Prospect street, the northerly line of Concord avenue, extended across Beacon street to the Cambridge line, and by the Cambridge and Boston lines.

District 2.—Beginning at the Boston line and bounded by the northeasterly line of Pearl street, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street, and by the Medford and Boston lines.

District 3.—Beginning at the Medford line and bounded by the southeasterly line of Cedar street, the northeasterly line of Highland avenue, the southeasterly line of Walnut street, the northeasterly line of Broadway, the northeasterly line of Main street, and by the Medford line.

District 4.—Beginning at the intersection of Medford and Washington streets, and bounded by the northerly line of Washington street, the northwesterly line of Prospect street, the northeasterly line of Somerville avenue, the southeasterly line of School street, the northeasterly line of Summer street, the southeasterly line of Cedar street, the northeasterly line of Highland avenue, and the easterly line of Medford street to Washington street.

District 5.—Beginning at the intersection of Prospect street and Somerville avenue, and bounded by the northwesterly line of

Prospect street, the northerly line of Concord avenue, prolonged to the Cambridge line, the Cambridge line (extending westwardly), the southeasterly lines of Oxford, Mossland, and Cedar streets, the northeasterly line of Summer street, the southeasterly line of School street, and the northeastely line of Somerville avenue to Prospect street.

District 6.—All of that portion of the city lying west of the southeasterly lines of Cedar, Mossland, and Oxford streets.

It will be seen by these descriptions that the side lines of streets are used as boundaries, and not the middle lines; so that ashes are removed from the sidewalks on both sides of a street on the same day.

House Offal.

The house offal has been collected by the city during the year under the same system that has been employed in the removal of ashes, and which was adopted in both departments in the year 1895.

The force employed consists of eighteen men, with ten horses and nine wagons.

The following table, showing the number of loads collected each month during the year, may be of interest:—

January	.	.	.	.	.	.	.	.	.	475
February	.	.	.	.	.	.	.	.	.	455
March	.	.	.	.	.	.	.	.	.	486
April	.	.	.	.	.	.	.	.	.	450
May	.	.	.	.	.	.	.	.	.	478
June	.	.	.	.	.	.	.	.	.	459
July	.	.	.	.	.	.	.	.	.	441
August	.	.	.	.	.	.	.	.	.	491
September	.	.	.	.	.	.	.	.	.	496
October	.	.	.	.	.	.	.	.	.	475
November	.	.	.	.	.	.	.	.	.	463
December	.	.	.	.	.	.	.	.	.	468
Total	.	.	.	.	.	.	.	.	.	5,637

Stables.

The following is a copy of an Act of the Legislature of 1895, Chapter 213, relating to the licensing and regulating of stables in cities, as amended by Chapter 332 of the Acts of 1896, and Section 3 of Chapter 300 of the Acts of 1897.

Section 1—No person shall hereafter erect, occupy, or use for a stable any building in any city whose population exceeds twenty-five thousand, unless such use is licensed by the Board of Health of said city, and in such case only to the extent so licensed.

Sect. 2.—The foregoing provisions shall not be construed to prevent any such occupation and use which may be authorized by law at the time of the passage of this act, to the extent and by the person or persons so authorized; provided, however, that the Board of Health of any such

city may make such regulations or orders respecting the drainage, ventilation, number of animals, and the storage and handling of manure in any existing stables in their respective cities as, in their judgment, the public health requires.

Sect. 3.—Whoever violates the provisions of this act, or of any regulation or order made pursuant thereto, shall be punished by a fine of five dollars for each day such offense continues; and any court having equity jurisdiction may restrain any such erection, occupation, or use contrary to the provisions of this act.

The number of petitions received for licenses to erect stables under the above law was thirty-seven.

Number granted	:	:	:	:	:	:	:	:	20
Number refused	:	:	:	:	:	:	:	:	17

Board of Infants.

Nine parties have been licensed to care for eighteen children, under the provisions of Chapter 318, Acts of 1892.

Deaths.

There were 801 deaths and fifty-seven stillbirths in the city during the year, as specified in the following table, which shows a decrease of deaths from the previous year of seventy-nine.

Deaths at Somerville Hospital during the year	.	.	.	.	.	.	.	.	26
Deaths at Home for Aged Poor	.	.	.	.	.	.	.	.	39

Deaths by Ages.

AGES.	Total.	Male.	Female.
Under one	173	100	73
One to two	39	25	14
Two to three.	15	8	7
Three to four	9	7	2
Four to five	6	6	0
Five to ten	13	5	8
Ten to fifteen	7	1	6
Fifteen to twenty	13	8	5
Twenty to thirty	67	38	29
Thirty to forty	66	25	41
Forty to fifty	55	29	26
Fifty to sixty	71	28	43
Sixty to seventy	114	47	67
Seventy to eighty	99	48	51
Eighty and over	54	21	33
	801	396	405

Mortality in Somerville in 1899.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
LOCAL DISEASES.													
DIGESTIVE ORGANS.													
Gastritis . . . . .	...	...	1	1	...	...	...	2	1	...	4	1	7
Peritonitis	2	...	...	...	...	...	...	2	1	...	...	1	8
Hepatitis . . . . .	...	...	2	...	...	...	...	...	...	...	...	...	2
Liver disease . . . . .	...	...	...	1	1	...	...	...	1	...	...	...	3
Gastric ulcer . . . . .	...	...	...	...	...	...	...	1	...	1	...	...	2
Enteritis	1	...	...	...	...	...	3	1	5	...	...	...	10
Hæmatemesis . . . . .	...	...	...	...	...	...	...	1	...	1	...	...	2
Hernia . . . . .	...	...	1	1	...	...	...	...	1	...	...	...	3
Appendicitis	1	...	...	...	...	...	...	...	...	1	...	...	2
Cirrhosis . . . . .	...	1	...	1	...	...	...	...	...	...	...	2	4
GENITO-URINARY ORGANS.													
Bright's disease	2	1	1	5	2	1	1	...	...	2	...	1	16
Diabetes . . . . .	...	...	...	...	...	2	1	...	...	1	...	...	4
Cystitis	1	...	...	1	...	...	1	...	...	1	1	...	5
Nephritis	1	3	3	3	1	3	...	2	1	2	2	3	24
Childbirth . . . . .	...	...	...	...	...	...	...	1	...	...	...	...	1
Eclampsia . . . . .	...	...	1	...	...	...	...	...	...	...	...	...	1
INTEGUMENTARY SYSTEM.													
Abcess	1	...	...	...	1	...	...	...	...	...	...	1	3
Pemphigus . . . . .	...	...	...	...	1	...	...	...	...	...	...	...	1
Eczema	1	...	...	...	...	...	...	...	...	...	...	...	1
Ulcer . . . . .	...	...	...	...	...	...	...	1	...	1	...	...	2
DEVELOPMENTAL DISEASES.													
OF CHILDREN.													
Inanition	2	1	3	4	2	...	2	3	2	...	2	2	23
Premature birth and congenital debility	2	1	4	3	4	3	2	2	2	...	...	...	23
OF OLD PEOPLE.													
Old age	2	3	4	3	2	2	4	1	4	2	1	2	30
VIOLENT DEATHS.													
Shock from electric wire . . . . .	...	...	...	...	...	...	...	...	...	1	...	...	1
Railroad . . . . .	...	...	...	...	...	2	...	...	2	...	1	...	5
Suicide . . . . .	...	...	...	1	...	...	...	...	...	...	...	1	2
Accidental poisoning . . . . .	...	...	...	...	...	...	...	1	...	...	...	...	1
Scalding . . . . .	...	...	...	...	...	...	...	...	...	1	...	...	1
Accidental drowning	1	...	...	...	...	1	...	...	1	1	...	...	4
Burning	1	...	...	...	...	...	1	...	...	...	1	1	4
Alcoholism	1	...	...	...	...	...	...	...	...	...	...	...	1
Fracture of skull . . . . .	...	...	...	1	1	...	...	...	...	...	...	...	2
Fracture of spine . . . . .	...	1	...	...	...	...	...	...	...	...	...	...	1
Total	81	62	65	87	61	50	65	82	69	53	54	72	801
Stillborn	6	3	7	2	6	7	5	1	4	4	7	5	57

Population (estimated) 60,000
 Death rate per thousand 13.3

Diseases Dangerous to the Public Health.

This Board has adjudged that the diseases known as smallpox, scarlet fever, diphtheria, membranous croup, typhus fever, typhoid fever, and cholera are infectious, or contagious, and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the Board every case of either of these diseases and all cases of measles coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose. On receipt of a card from a physician, the Superintendent of Schools, the principal of the school in the district in which the patient resides, and the Librarian of the Public Library are notified.

Scarlet Fever.—One hundred and fifty-seven cases of scarlet fever have been reported during the year, three of which resulted fatally. In 1898 there were eighty cases, none of which resulted fatally.

Diphtheria.—One hundred and forty-seven cases of diphtheria have been reported during the year, eleven of which were fatal. In 1898 there were seventy-four cases, ten of which proved fatal. Culture tubes and anti-toxin are provided by the State Board of Health, and placed by this Board in central locations for the use of physicians. Warning cards are used in dealing with scarlet fever and with diphtheria, and the premises are fumigated by the use of the Formaldehyde gas regenerator, immediately after the termination of a case. An inspection is made by the agent of the Board of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

Typhoid Fever.—Seventy-three cases of typhoid fever have been reported during the year, fifteen of which have proved fatal. In 1898 there were fifty-four cases reported, eleven of which were fatal.

Typhus Fever, Smallpox, Cholera.—No cases of typhus fever, smallpox, or cholera have been reported the past year.

Number of houses placarded	.	.	.	.	304
Premises disinfected by agent	.	.	.	.	307

Tables.—The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1899 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years:—

Scarlet Fever, Diphtheria, and Typhoid Fever Reported in 1899.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January . . .	7	....	....	7	1	14.3	4	1	25
February . . .	3	....	....	14	2	14.3	2	1	50
March . . .	10	....	....	7	....	....	1	....	....
April . . .	2	....	....	3	....	....	1	....	....
May . . .	12	....	....	11	1	9.1	5	1	20
June . . .	22	....	....	4	....	....	6	....	....
July . . .	5	....	....	6	....	....	1	1	100
August . . .	10	....	....	9	....	....	15	2	13.3
September . . .	9	....	....	8	....	....	13	2	15.4
October . . .	36	....	....	14	1	7.1	6	1	16.6
November . . .	17	....	....	24	1	4.1	12	3	25
December . . .	24	3	12.5	40	5	12.5	7	3	42.9
Total . . .	157	3	1.9	147	11	7.5	73	15	20.5

Deaths from Scarlet Fever, Diphtheria, and Typhoid Fever in the Last Ten Years.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.									
	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
January . .	..	..	..	1	7	8	..	..	..	..	2	2	2	2	2	4	12	..	2	1	..	..	..	..	2	..	2	..	2	1
February . .	2	..	..	..	3	5	..	..	..	..	2	..	..	1	3	1	5	2	..	2	1	..	2	..	..	1	..	..	2	1
March . . .	1	..	3	..	7	2	1	2	..	..	2	..	2	..	4	6	3	4	..	..	..	1	1	..	1	1	..	..	..	..
April . . .	..	..	2	..	3	1	..	2	..	..	1	1	2	2	1	6	5	5	1	..	..	2	2	..	..	2	1	2	..	..
May . . .	..	1	4	..	7	..	..	..	..	..	1	1	1	2	3	4	4	7	1	1	1	1	..	..	2	1	1	1	1	1
June . . .	1	1	..	..	4	..	..	..	..	..	..	..	..	..	..	2	2	1	..	..	..	2	..	1	1	2	..	1	..	..
July . . .	..	..	1	..	4	1	..	2	..	..	4	1	..	..	1	2	5	1	..	..	..	2	..	1	1	1	2	..	1	1
August . . .	..	..	..	..	3	..	1	..	..	..	1	..	..	..	4	3	2	7	3	..	1	1	..	1	3	1	2	2	1	2
September . .	..	..	2	..	..	..	..	..	..	..	..	3	..	1	..	2	2	7	..	..	1	2	4	2	2	..	6	2	..	2
October . . .	..	..	1	..	3	..	2	..	..	..	3	3	..	1	4	3	1	5	..	1	1	2	3	3	..	4	3	2	1	1
November . .	..	..	9	7	..	..	..	..	..	..	3	4	1	2	5	4	7	8	2	1	1	3	..	2	2	..	5	1	..	3
December . .	1	..	3	7	2	..	1	..	..	3	2	3	..	..	1	8	6	1	1	5	..	..	..	2	2	1	1	1	3	3
Total . .	5	2	14	19	51	17	5	6	0	3	21	18	8	11	28	43	54	44	10	11	10	11	11	13	13	10	26	11	11	15

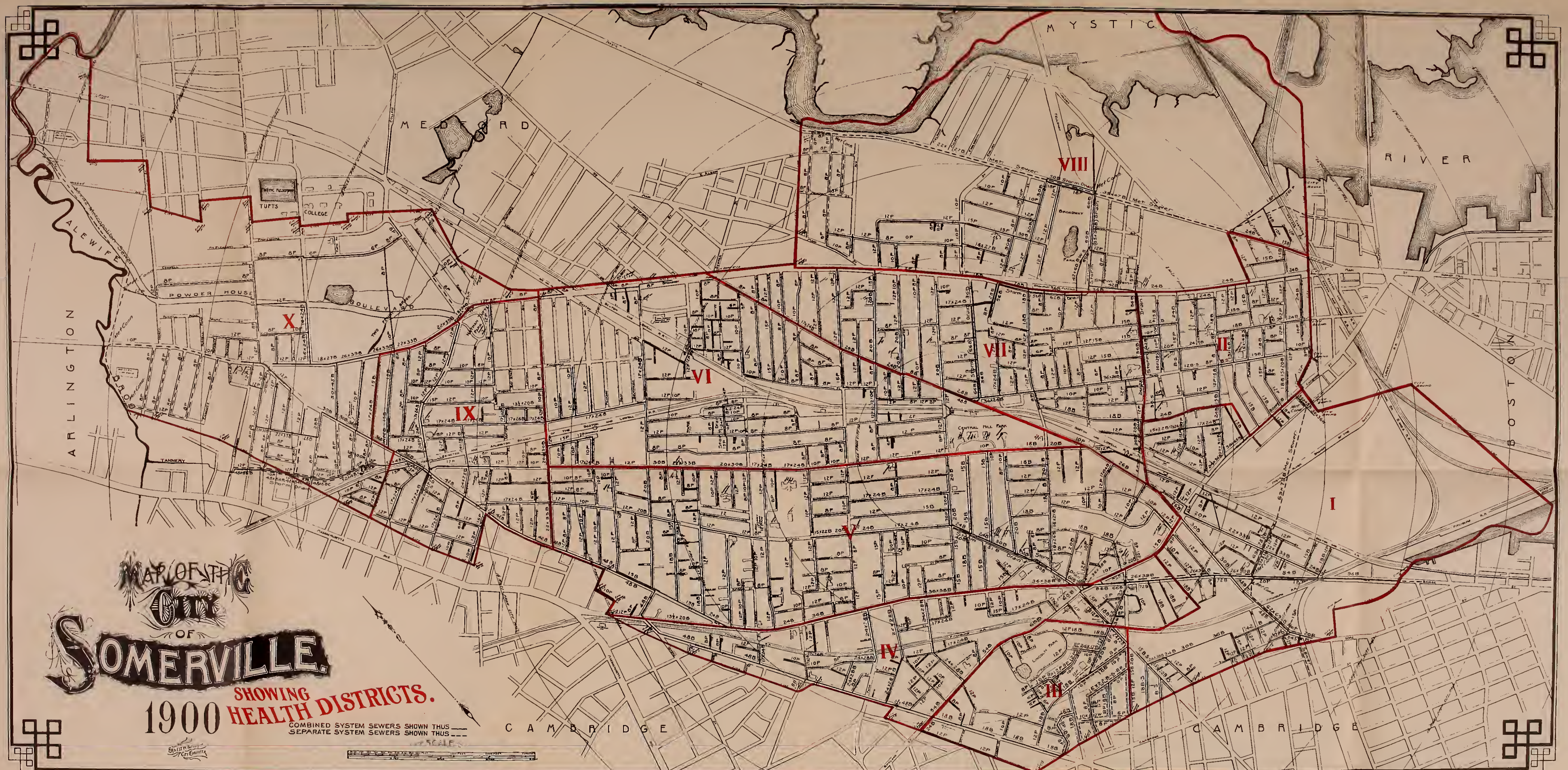
Districts.

The accompanying map shows the boundaries of the ten health districts into which the city was divided by the Board of Health of 1878; also the locations of common sewers.

A record has been kept from year to year of the number of deaths, the death rate per thousand, the prevalence of dangerous diseases, and the number of nuisances abated in these several districts, and is continued in the following tables, and in the table near the beginning of this report.

The estimated population in the several districts was originally based on the number of assessed polls in each, and upon the population of the entire city; the ratio of polls to population being presumed to be the same in all the districts. Substantially the same method of estimating the population has been continued, the census of every fifth year being taken as a basis for calculation.

The number of dwellings and of assessed polls May 1, 1899, has been obtained from the assessors' books.



MAP OF THE
CITY
OF
SOMERVILLE.
SHOWING
1900 HEALTH DISTRICTS.

COMBINED SYSTEM SEWERS SHOWN THUS ———
SEPARATE SYSTEM SEWERS SHOWN THUS - - -



C A M B R I D G E

C A M B R I D G E



Table of Deaths in Each District During the Last Ten Years.

Districts	I.	II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		Entire City.
		107 A.	5,891	93 A.	5,928	171 A.	361 A.	285 A.	194 A.	482 A.	174 A.	456 A.	2,660 A.							
In 1898.	7,404	5,891	5,024	5,928	11,498	6,404	7,144	3,208	4,303	3,196	60,000									
	1,001	1,006	818	982	2,080	1,190	1,230	567	804	686	10,364									
	7.4	5.8	6.1	6.1	5.5	5.4	5.9	5.7	5.4	4.7	5.8									
YEAR.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.	Number of Deaths.	Rate per 1,000.
	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	Deaths.	per 1,000.	
1890	140	19	48	94	139	46	59	27	26	15	663	16								
1891	169	22	68	103	120	75	77	42	33	14	761	18								
1892	139	17	42	76	144	65	59	27	44	17	696	16								
1893	161	18	63	94	180	64	72	23	26	9	790	15								
1894	157	22	86	117	188	70	64	43	27	11	855	16								
1895	136	19	91	94	184	77	67	29	37	10	823	16								
1896	155	22	77	105	180	97	82	46	29	40	924	17								
1897	158	22	80	88	170	93	68	40	29	53	859	15								
1898	161	23	79	88	194	92	93	28	50	28	880	15								
1899	102	14	81	113	155	87	87	34	46	28	801	13								
Average death rate per 1,000 for ten years	20	12	17	18	17	21	13	16	11	15	16									

Table Showing the Five Principal Causes of Death in Somerville in 1899, with the Number and Rate in Each District.

DISTRICTS.	PNEUMONIA.		HEART DISEASE.		PHTHISIS.		APOPLEXY.		TUBERCULOSIS	
	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.	Number of Deaths.	Number per 1,000 of Pop.
I.	18	2.43	4	0.54	8	1.08	7	0.95	5	0.68
II.	11	1.87	9	1.53	3	0.51	1	0.17	2	0.34
III.	14	2.79	2	0.39	12	2.39	2	0.39	5	0.99
IV.	12	2.02	10	1.69	10	1.69	8	1.35	3	0.51
V.	13	1.13	21	1.83	4	0.35	9	0.78	6	0.52
VI.	14	2.19	7	1.09	9	1.41	4	0.63	7	1.09
VII.	13	1.84	11	1.54	4	0.56	7	0.98	2	0.28
VIII.	4	1.22	3	0.94	4	1.22	..	..	1	0.31
IX.	6	1.39	4	0.93	1	0.23	2	0.47	4	0.93
X.	6	1.88	1	0.31	1	0.31	1	0.31	3	0.94
Total	111	1.85	72	1.20	56	0.93	41	0.68	38	0.63

Table of Scarlet Fever, Diphtheria, and Typhoid Fever in Each District in 1899.

DISTRICTS.	SCARLET FEVER.				DIPHTHERIA.				TYPHOID FEVER.			
	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.	Cases Reported.	Deaths.	Cases per 1,000 of Pop.	Deaths per 1,000 of Pop.
I.	17	..	9.40	....	18	2	2.43	0.27	6	..	0.81	....
II.	12	..	2.04	....	12	3	2.04	0.51	5	2	0.85	0.34
III.	10	..	1.99	....	26	3	5.09	0.59	2	2	0.39	0.39
IV.	19	..	3.21	....	18	2	3.04	0.34	6	..	1.01	....
V.	38	2	3.31	0.18	20	..	1.74	....	10	4	0.97	0.35
VI.	23	..	3.59	....	15	..	2.34	....	11	1	1.72	0.16
VII.	11	1	1.54	0.14	9	..	1.26	....	15	4	2.09	0.56
VIII.	4	..	1.22	....	8	..	2.49	....	..	..	....	....
IX.	17	..	3.95	....	14	1	3.26	0.23	12	2	2.79	0.47
X.	6	..	1.88	....	7	..	2.19	....	6	..	1.88	....
Total	157	3	2.62	0.05	147	11	2.45	0.18	73	15	1.22	0.25

Rates per Thousand of Population of Cases of Scarlet Fever, Diphtheria, and Typhoid Fever Reported,
and of Deaths from the Same, in the Last Seven Years.

DISTRICTS.	1893.			1894.			1895.			1896.			1897.			1898.			1899.			Av'age for Seven Yrs.		
	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.
I.	8.86 0.57	1.13 0.23	1.36 0.11	13.98 2.73	1.44 0.57	1.15 0.14	4.47 0.86	5.19 1.04	0.86 ...	1.12 0.28	1.96 2.25	1.40 ...	4.29 0.28	8.74 1.53	0.39 0.42	1.35 0.13	1.08 ...	0.40 ...	9.40 ...	2.43 0.27	0.81 ...	6.21 0.65	4.57 0.86	1.06 0.10
II.	4.07 ...	0.93 0.23	1.04 0.47	4.45 ...	1.30 0.18	0.74 0.18	2.10 0.19	4.27 1.11	1.86 0.74	0.72 ...	1.61 1.25	1.61 0.72	3.36 0.18	7.07 0.53	0.53 0.36	0.85 ...	1.36 0.17	1.02 0.34	2.04 ...	2.04 0.51	0.85 0.34	3.37 0.05	3.96 0.57	1.19 0.45
III.	9.58 0.53	0.79 0.27	1.59 ...	11.98 1.99	4.44 1.33	1.33 ...	5.32 0.22	7.77 0.66	1.33 ...	1.49 ...	5.97 0.21	1.07 0.43	3.77 0.21	6.27 1.05	0.42 ...	1.39 ...	2.19 0.60	0.36 0.36	1.99 ...	5.03 0.50	0.39 0.39	5.08 0.42	4.65 0.67	0.93 0.17
IV.	5.70 0.86	0.35 ...	0.34 0.17	14.37 2.24	3.73 1.49	0.74 0.18	5.41 0.74	5.60 1.68	1.49 0.37	2.14 ...	7.32 1.25	1.97 0.36	3.34 ...	3.51 0.71	1.04 1.17	1.69 ...	1.01 ...	0.84 ...	3.21 ...	3.04 0.34	1.01 ...	5.12 0.55	3.51 0.78	1.06 0.47
V.	5.47 0.11	1.13 0.23	1.71 0.57	5.75 0.38	2.49 0.67	1.34 0.38	4.13 0.09	6.05 1.25	0.48 0.29	2.24 ...	6.09 0.72	1.16 0.72	1.42 0.09	3.27 0.35	0.62 0.18	1.38 ...	0.69 0.17	1.04 ...	3.31 0.18	1.74 ...	0.97 0.35	3.39 0.12	3.07 0.46	1.05 0.38
VI.	6.26 0.62	1.56 0.31	1.25 ...	9.85 0.75	0.94 ...	0.94 0.18	3.03 0.19	2.08 0.38	0.57 ...	2.84 ...	7.18 0.67	1.00 ...	2.71 0.17	7.05 0.95	0.95 0.17	0.93 ...	1.08 0.15	0.77 ...	3.59 ...	2.34 ...	1.72 0.16	4.17 0.25	3.18 0.35	1.03 0.08
VII.	4.59 0.19	1.39 0.19	0.79 0.19	4.69 0.15	...	0.62 0.31	2.81 0.31	3.44 0.31	1.09 ...	3.45 0.15	6.87 0.75	1.05 0.45	2.01 ...	7.55 0.88	1.02 0.14	1.14 ...	2.41 0.43	0.85 0.43	1.54 0.14	1.62 ...	2.09 0.56	2.89 0.14	3.28 0.37	1.07 0.29
VIII.	5.68 0.57	1.13 ...	1.70 0.65	8.29 0.41	4.56 0.82	0.82 0.41	4.52 ...	2.49 ...	1.66 ...	0.44 ...	11.00 1.83	2.93 1.10	4.51 ...	4.19 0.64	1.61 0.32	2.80 ...	1.25 0.31	0.62 ...	1.22 ...	2.49 ...	...	5.07 0.19	3.88 0.47	1.34 0.39
IX.	5.59 ...	1.75 ...	2.73 ...	6.35 0.27	1.38 ...	1.92 0.55	2.77 ...	2.49 0.28	1.65 ...	1.77 0.25	3.54 ...	2.78 0.51	1.69 ...	4.56 0.28	0.72 ...	0.70 ...	0.93 0.23	1.63 0.23	3.95 ...	3.26 0.23	2.79 0.47	3.26 0.08	2.56 0.11	2.03 0.29
X.	8.89 1.36	2.73 1.37	...	6.49 ...	2.59 ...	1.73 ...	8.23 0.43	4.76 ...	2.60 ...	6.43 0.41	6.03 0.81	3.22 0.81	1.04 ...	2.43 0.69	0.36 ...	1.90 ...	0.32 0.32	1.90 ...	1.88 ...	2.19 ...	1.88 ...	4.98 0.26	3.01 0.39	1.67 0.12
City	6.28 0.38	1.12 0.22	1.18 0.26	8.59 0.96	2.09 0.53	1.10 0.24	4.12 0.32	4.68 0.81	1.16 0.19	2.53 0.09	7.68 0.96	1.57 0.46	2.72 0.11	5.51 0.76	0.86 0.19	1.33 ...	1.73 0.17	0.90 0.18	2.62 0.05	2.45 0.18	1.22 0.25	4.03 0.27	3.54 0.52	1.14 0.25

Undertakers.

The duty of issuing licenses to undertakers was transferred to Boards of Health by the following provision of law:—

[Acts of 1897, Chapter 437, Section 7.]

“Section 7. The boards of health of cities and towns shall, on or before the first day of May in each year, license a suitable number of undertakers who can read and write the English language, to take charge of the funeral rites preliminary to the interment, removal, or cremation of a human body. Such licenses shall be issued under such terms and upon such conditions as the board of health may prescribe, and may be revoked at any time by the board when such terms or conditions or any requirements of law relative thereto have been violated by the undertaker; provided, however, that an undertaker so licensed shall have the right to act thereunder in any city or town in the Commonwealth.”

Under the above law, sixteen undertakers received licenses.

Appropriation for Health Department and Expenditures
Therefrom.

CREDIT.	
Appropriation	\$24,000 00
Sale of offal to Hannibal S. Pond	1,000 00
Permits to keep swine and goats and collect grease	44 00
Total credit	\$25,044 00
DEBIT.	
Expenditures:—	
For Agent's salary	\$1,200 00
Salary of Superintendent of collection of ashes and offal	900 00
Collection ashes	7,840 83
Collecting offal	11,456 00
Burying dead animals	87 50
Stable expenses (including repairs and lighting)	796 71
Hay and grain	2,927 67
Horse doctoring	11 50
Horseshoeing	404 17
Harnesses and horse clothing	405 86
Wagons and sleds, and repairing same	1,038 95
Vaccine virus	29 19
New horses	300 00
Tools, and repairing same	96 17
Culture tubes	8 95
Books, stationery, etc.	169 50
Incidentals	326 51
Total expenditure	\$27,999 51
Amount overdrawn	\$2,955 51

ALLEN F. CARPENTER, Chairman.
ALVANO T. NICKERSON,
ARTHUR R. PERRY,
Board of Health.

REPORT OF INSPECTOR OF ANIMALS AND PROVISIONS.

OFFICE OF INSPECTOR OF ANIMALS AND PROVISIONS, }
January 20, 1900. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—I beg leave to submit the following report as inspector of animals and provisions for the year ending December 31, 1899.

Chapter 408 of the acts of the legislature of the year 1899, which was approved May 25, 1899, revoked the authority previously existing for the appointment of an inspector of animals and provisions, and provided (Section 17) for the appointment of an inspector of animals, subject to the approval of the board of cattle commissioners.

Section 20 of said chapter 408 is as follows:—

The duties of inspectors appointed under the provisions of chapter four hundred and ninety-one of the acts of the year eighteen hundred and ninety-four and of acts in amendment thereof, except so far as they relate to the duties, rules, and regulations of the board of cattle commissioners, as defined in this act, shall hereafter be performed by the boards of health of the various cities and towns; and said boards of health shall have full power in all matters included under the provisions of said chapter four hundred and ninety-one and of acts in amendment thereof, except that the board of cattle commissioners, in accordance with the provisions of this act, so far as not otherwise provided in section fourteen relating to glanders, farcy, and rabies in the city of Boston, shall have full control and authority in all matters relating to contagious diseases among domestic animals.

The undersigned was reappointed inspector of animals and provisions March 8. After the passage of the law above mentioned, he was appointed, by the mayor and aldermen, inspector of animals, and June 16, 1899, he was appointed, by the board of health, an agent of that board, to assist in the performance of its duties under the provisions of Section 20, Chapter 408, Acts of 1899, above quoted.

The duties of the inspector of animals relate to contagious diseases among domestic animals; and he is required to examine the barns, stables, or other enclosures in which neat cattle are kept, with reference to their situation, cleanliness, light, ventilation, and water supply, and the general condition and cleanliness of the said neat cattle, and to make a detailed report of such examination to the board of cattle commissioners.

The duties under the board of health require an inspection of animals to be slaughtered for food, and of the slaughtered carcasses, and have reference to all kinds of perishable provisions,—as meats, fish, vegetables, fruits, etc., to be used as food.

As the requirements of the two positions are, to some extent, identical, and because the separation of the duties was not made until the middle of the year, this report covers the whole matter.

The following is a statement of the number of animals killed during the year at the five slaughtering establishments in the city: John P. Squire & Co. Corporation, Medford street, 760,328 swine; North Packing and Provision Co., Medford street, 900,490 swine; New England Dressed Meat and Wool Co., Medford street, 315,721 sheep, 47,137 calves, 12,087 cattle, 167 swine; Sturtevant & Haley Beef and Supply Co., Somerville avenue, 4,905 cattle; Rachel Gunsenhiser, 104 North street, 891 cattle, 920 calves; total number of animals slaughtered, 2,042,646. I have made 430 visits to slaughter houses, and a large number of the animals have been inspected.

There are 247 cows and 44 swine kept in our city for domestic purposes. One cow was quarantined and afterwards killed by order of the state board of cattle commissioners. All cow barns were measured during the year, under the rules of the cattle commissioners.

Four horses were quarantined. One of them was released, and the remaining three were killed by order of the commissioners. In addition to these animals, twenty-five horses, which were affected with contagious diseases, were killed, with the consent of the owners. There were less cases of contagious disease among horses than in the previous year.

There are about 415 grocery and provision stores in the city, and 319 wagons from which produce and provisions are sold on the street. About 200 of these wagons are registered.

I have condemned and caused to be destroyed 14 cattle, 21 calves, 5 swine, 6,865 pounds of beef, 1,509 pounds of veal, 120 pounds of fowls, 240 pounds of fish, 4 bushels of clams, 38 lobsters, 17 dozen bananas, 1 barrel of cabbages, 42 quarts of strawberries.

I have endeavored to perform the duties of the office to the best of my ability.

Respectfully,

CHARLES M. BERRY, Inspector.

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

Hon. GEORGE O. PROCTOR, Mayor, Chairman, ex officio.

HERBERT E. MERRILL	Ward One.
EDWARD B. WEST, President	Ward Two.
JAMES H. BUTLER	Ward Three.
ALBERT W. EDMANDS	Ward Four.

Committees.

ON INVESTIGATION AND RELIEF.—Mr. West and Mr. Merrill.

ON FINANCE.—Mr. Edmands and Mr. Butler.

General Agent.

CHARLES C. FOLSOM.

Secretary.

CORA F. LEWIS.

City Physician.

ARTHUR R. PERRY, M. D.

Office.

City Hall Annex, Highland avenue.

REPORT OF THE OVERSEERS OF THE POOR.

OFFICE OF THE OVERSEERS OF THE POOR, }
CITY HALL ANNEX, December 31, 1899. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—We herewith submit our annual report for the year 1899.

Appropriation.

The appropriation of \$22,000 would have been sufficient for the year had not bills amounting to \$925.41 for repairs on the "City Home" been sent to this department for payment. Also bills for furnishing the "Home" amounting to \$1,110.23 were paid from the Support of Poor account.

Somerville Hospital.

The Somerville Hospital has been aided during the year to a somewhat less extent than the year previous, the exact sum for 1899 being \$2,645.41, as against \$3,134.76 in 1898. Quite a large sum has been collected from the state and from other cities and towns for the treatment at the hospital of patients who were not settled in this city.

City Home.

The Board of Overseers of the Poor feel very well satisfied with the year's work in their department, and wish to express their appreciation for the "Home" furnished by the city for those who are so unfortunate as to be unable to support themselves.

The property known as the Levi Russell estate, purchased by the city in 1898 for almshouse purposes, has been repaired and utilized for such purposes.

The out building, known as the carriage house, has been moved around and connected with the house, and fitted up as a dining-room, men's sitting room, bathroom, and pantry, on the first floor, men's dormitory and two hospital rooms on the second floor, with the furnace rooms and laundry in the basement. In the main house and L on the first floor are situated the kitchen and the rooms occupied by the warden's family, and in the second

story and attics are the women's apartments. All of the rooms are fitted up and furnished in a very neat and comfortable manner. There are in all thirty beds for inmates.

In September the Board, having received many applications for the positions, selected as warden and matron of the "City Home," as it has been named, Mr. and Mrs. J. Foster Colquhoun, who entered upon their duties October 15. It seems to the Board, after two and one-half months' service by these officials, that they were wisely selected for their positions.

The time since the inmates were admitted, viz., November 20, has been so short that no comparative statement can be made as to the cost per week for each inmate. During the year 1899 seven of the poor people, whom we were fully supporting, died; we had planned for these in our new quarters, but feel quite sure their places will be filled very soon by others whose poverty may be caused by circumstances over which they have no control, or perhaps by habits inherited or acquired. We have in the "City Home" on December 31, 1899, seventeen inmates. There are as many more among those supported in insane hospitals, who could be cared for just as well in the "Home," they being "chronic cases"; but as a change in the law regarding the support of the insane is contemplated, we regard it as unwise to bring them here until the legislature acts upon the matter.

Tables.

The following tables will give an accurate account of our work for the year.

Respectfully submitted,

(Signed)	GEORGE O. PROCTOR, Chairman, ex officio.
	HERBERT E. MERRILL, Ward One.
	EDWARD B. WEST, President, Ward Two.
	JAMES H. BUTLER, Ward Three.
	ALBERT W. EDMANDS, Ward Four.

Board of Overseers of the Poor.

Table No. 1.—Full Support (During the Year).

In Almshouses	19
In private families	25
In hospitals for the sick	106
In Massachusetts School for the Feeble-minded	4
Insane persons in private families	3
Insane persons in hospitals	86

Table No. 2.—Full Support (at present time, December 31, 1899).

In Somerville "City Home"	13
Insane in hospitals (we are reimbursed for 3)	62
Insane in private families	1
In hospitals, sane	9

Table No. 3.—Somerville Hospital.

Cases on city's account	89
Cases having settlement in Somerville	29
Cases having settlement in other cities and towns	19
Cases having no settlement (chargeable to State)	41
Persons supplied with nurse at their homes	38
Money expended	\$2,645 41
Amount to be reimbursed to the city	1,172 58
Net cost to the city	<hr/> \$1,472 83

Table No. 4.—Partial Support (Outdoor Relief).

Families aided	286
Persons aided	1,153
Burials	21
Permits to the Tewksbury almshouse	9

Table No. 5.—Reimbursements in Detail.

Commonwealth of Massachusetts	\$2,428 14
City of Boston	982 98
“ “ Brockton	38 86
“ “ Cambridge	765 80
“ “ Chelsea	95 28
“ “ Everett	45 72
“ “ Gloucester	10 90
“ “ Haverhill	16 70
“ “ Lowell	113 55
“ “ Lynn	24 83
“ “ Malden	144 89
“ “ Marlboro	1 25
“ “ Newburyport	15 00
“ “ Salem	29 28
“ “ Springfield	1 30
“ “ Woburn	47 75
“ “ Worcester	10 00
Town of Arlington	33 55
“ “ Canton	3 40
“ “ Hingham	39 16
“ “ Merrimac	11 40
“ “ North Andover	50 79
“ “ Plymouth	54 23
“ “ Reading	15 00
“ “ Stoneham	25 93
“ “ Tewksbury	2 30
Guardians and Relatives	800 37
Money refunded	19 04
Total	<hr/> \$5,827 40

Table No. 6.—Recapitulation.

Appropriation	\$22,000 00
Reimbursements	5,827 40
Total receipts	<hr/> \$27,827 40
Total expenditures	28,924 39
Account overdrawn	<hr/> \$1,096 99
Net expenditures	23,096 99

TABLE NO. 7 — EXPENDITURES, IN DETAIL, FOR THE YEAR 1899.

1899.	Rent.	Board.	Groceries.	Towns and Cities.	Public Institutions.	Boots and Shoes.	Dry Goods.	Burial.	Salaries.	Fuel.	Sundries.	Medicine.	Total.
January . .	\$11 00	\$169 29	\$505 19	\$316 27	\$2,137 83	\$7 40	\$8 10	\$45 00	\$284 61	\$192 16	\$61 68	\$115 20	\$3,853 73
February . .	11 00	214 40	336 79	183 77	192 57	21 10	. . .	45 00	284 62	159 98	81 01	81 64	1,611 88
March . . .	11 00	247 25	559 80	87 16	2,300 85	19 95	. . .	10 00	258 34	131 63	34 25	69 27	3,729 50
April . . .	11 00	124 07	264 38	237 15	326 89	. . .	. . .	. . .	258 33	. . .	18 80	79 20	1,319 82
May	11 00	114 51	235 97	51 93	486 58	15 75	8 25	. . .	258 33	4 50	49 61	75 20	1,311 63
June	11 00	180 07	319 28	94 58	2,297 44	7 70	. . .	55 00	258 34	. . .	24 75	51 20	3,299 36
July	11 00	159 37	212 02	473 03	641 36	. . .	3 50	. . .	258 33	. . .	21 07	67 83	1,847 51
August . . .	11 00	147 04	224 03	266 30	149 05	. . .	. . .	20 00	258 33	2 13	30 08	51 85	1,159 81
September .	11 00	276 78	345 13	378 79	2,143 64	18 50	14 50	80 00	258 33	. . .	168 26	65 77	3,760 70
October . . .	11 00	112 51	214 85	186 86	254 14	. . .	. . .	. . .	308 34	105 75	825 32	69 25	2,088 02
November . .	7 00	105 15	377 65	26 43	271 23	. . .	86 79	30 00	314 93	162 98	740 80	34 04	2,157 00
December . .	7 00	27 15	335 57	219 94	1,001 09	13 85	3 68	15 00	326 34	86 11	675 07	74 63	2,785 43
Totals . . .	\$124 00	\$1,877 59	\$3,930 66	\$2,522 21	\$12,202 67	\$104 25	\$124 82	\$300 00	\$3,327 17	\$845 24	\$2,730 70	\$835 08	\$28,924 39

TABLE NO. 8. — GROSS EXPENDITURES FROM 1886 TO 1899, INCLUSIVE.

1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
\$14,341.83	\$13,430.89	\$13,375.98	\$14,610.92	\$15,261.14	\$15,980.49	\$17,015.30	\$17,799.58	\$19,733.13	\$20,755.46	\$21,990.79	\$25,681.47	\$28,522.21	\$28,924.39

REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN, }
January 2, 1900. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—I present the following as a summary of the work done by me as City Physician for the year beginning January 13, 1899, and ending December 31, 1899:—

Number of visits made	3,427
Number of persons treated at my office	433
Number of children vaccinated	227
Number of persons from whom teeth have been extracted	43
Number of women attended in childbirth	30
Number of visits to the police station	29
Number of candidates examined for the police force	25
Number of candidates examined for permanent men in the fire department	7
Number of visits made and certificates given where persons had died unattended by a physician	5

There has been expended for medicine since January 13, 1899, \$686.10. No supplies were carried over from last year, but such stock now on hand equals approximately in value the amount of druggists' bills now payable.

The net cost to the City of Somerville for supplying medicine and medical attendance unstintedly to the very needy sick within its borders has been in 1899 almost exactly one-half what that cost was in 1898.

I do not deem, and the Overseers of the Poor, by their hearty approval of my medicine bills, have not seemed to think, there would be any real economy in being at all niggardly in supplying medicines of the best quality in whatever quantity was needed.

Very respectfully submitted,

ARTHUR R. PERRY, City Physician.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,
CITY HALL, SOMERVILLE, January 25, 1900. }

To His Honor, the Mayor, and the Board of Aldermen :—

Gentlemen,—I herewith present to your honorable body a report of the work done and expense incurred for the year ending December 31, 1899, by the departments under my charge and supervision, including Engineering, Sewers, Public Grounds, and other public works.

ENGINEERING DEPARTMENT.

During the past year many preliminary plans and estimates of cost of various items of work have been made as required, lines and grades given for all construction work on sewers, sidewalks, streets, parks, water and gas mains, and other miscellaneous work. All sidewalk assessments have been computed, and plans and assessments made for sewers constructed.

A large amount of work has been done in the city by different companies and corporations during the year, requiring inspection, locations, lines and grades from the Engineering department, and the alteration of many house drains, catch-basins, sewers, water services and mains.

The Massachusetts Pipe Line Gas Company have laid two thirty-six-inch mains across the southerly section of the city, from the Charlestown line to the Cambridge line, a length of 6,840 feet. The New England Telephone and Telegraph Company have constructed about ten miles of underground conduits in streets where their principal lines of poles exist, the city having the use of one duct for the city wires. The West End Street Railway Company have added a double track to their location in Somerville avenue and Elm street, a length of about 9,000 feet.

A number of plans and miscellaneous data have been acquired in the matter of the abolition of grade crossings on the Fitchburg railroad, and the Lexington and Arlington branch of the Boston & Maine railroad in this city, but no scheme or set of plans have been adopted as yet.

Fourteen assistants have been employed in the department as engineers on the various works in progress during the year, ten permanently, and others as the work required.

All items of engineering work have been paid from the engineering appropriation, with the exception of a small amount on construction work, where the Engineer was used as an inspector.

Appropriation		\$10,000 00
Received from other departments and corporations for work done, credit		328 62
		<hr/>
		\$10,328 62
Salary City Engineer (including maintenance of team)	\$2,400 00	
Salaries of assistants	7,413 91	
Draughting materials, stationery, and office supplies	169 03	
Tapes, plumbs, stakes, tools, and general supplies	106 42	
Car fares	216 15	
Expressing, telephone, and incidental expenses	22 90	
	<hr/>	
Total		\$10,328 41
		<hr/>
Unexpended balance		\$0 21
Engineering services on account of inspection of construction work, paid from Sewers Construction account and Powder-House Boulevard account	\$149 00	
Total cost maintaining Engineering department, 1899		\$10,477 41

Classification of Expenditures, Assistants' Salaries.

Sewers—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, and all engineering work relating to sewers	\$1,690 05
Highways—comprising plans, estimates, titles, profiles, lines and grades, and all other engineering relating to the department	472 15
Sidewalks—comprising profiles, lines, grades, measurements, titles, costs, and assessments	690 24
Water Works—comprising lines, grades, locations of mains, gates, hydrants and services, and other matters relating to water department, also new map for department	784 62
Public Grounds—comprising surveys, plans, estimates, profiles, and grades, including laying out of parks and grounds	309 35
Public Buildings—comprising surveys, estimates, lines, grades, and other work relating to construction	148 07
Street Numbering—comprising locations of buildings, plans, and affixing street numbers on houses	149 04
Street Lines—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	175 97
	<hr/>
Amount carried forward	\$4,419 49

Amount brought forward	\$4,419 49
Middlesex Registry—comprising copying of plans and abstracts from deeds filed, and examination of titles	152 88
City Survey—comprising lines, angles and measurements, calculations of traverses and locations of division lines and buildings	320 15
Powder-House Boulevard—comprising surveys, calculations, taking of land plans, construction plans, profiles, deeds, and general engineering work in laying out and constructing	1,186 13
Boston Elevated Railway Co.—comprising grades, plans, and profiles	81 92
Electric Light Co. and Telephone and Telegraph Co.—comprising lines, plans, locations of poles and conduits, and office notes	48 76
Gas Light Companies—comprising lines, locations, and office notes	32 75
Grade Crossings—comprising miscellaneous data, plans, and profiles	68 42
Office Work—comprising records of all locations, indexing, typewriting, calculations, and general draughting	989 13
Miscellaneous Work—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	114 28
Total	<hr/> \$7,413 91

There are a number of old streets in the city where no well-defined street line exists, and many times the Engineering Department is called upon to give lines and grades for public improvements, and have no recorded data or authority for the same; at these various places plans should be made and adopted by the city, showing an established line and grade to be used in future work.

At the intersections of streets and at angle points in streets **stone bounds** should be set, yearly, defining the lines and preserving points that are being used continually, and would save considerable time and expense in the laying out of the city's work; no bounds have been set for a number of years past.

All plans of streets submitted with petitions to the city for acceptance should be made on a uniform scale of forty feet to an inch, and the profile showing the grade on a vertical scale of four feet to an inch; this plan and grade should be approved by the city before obtaining releases for acceptance from the property owners.

Bridges.—The railroad bridges and highway bridges within the city's limits are in the same general condition as stated in the Engineer's report for the year 1898.

SEWER DEPARTMENT.

The principal work done on construction during the past year has been the extension of the so-called "separate system" sewers, designed for taking house drainage only (roof and ground water being excluded), the district benefited including a portion of the low, flat area in the southwesterly part of the city, in the vicinity of Concord square, where cellars have been badly flooded for a number of years past during storms, but can now be relieved by separate connections with the new sewers constructed during the year.

The above-referred-to district, together with the Somerville-avenue district, includes all the low-lying land south and west of Somerville avenue, and extending to the City of Cambridge boundary line; within this section, in addition to the mere extent of area, unfavorable conditions prevail, due to physical causes, not encountered in other parts of the city. While some of the existing sewers are of comparatively large size and capacity, the fact remains that their outlet during storms through the sewerage system of the city of Cambridge is practically at the level of mean low water, and many of the cellars in this area are below high tide, so that the sewers in an area of this extent and character, running under pressure (due either from excessive rainfall or to high tides), results in back water in the house drains and the flooding of cellars, there being about 900 in this entire area so affected under the most unfavorable conditions.

This separate system to receive the house drainage provides for new pipe sewers, of greatly reduced size from the present structures, built in each street; in many cases two sewers, one under each sidewalk, are designed, and when wholly completed the entire area, where low cellars exist and flooding is now experienced, will be relieved. All of the storm water from the entire area and the house sewage from the high portion will continue to be dealt with by the existing combined sewers. This "separate system" should be extended westerly in Somerville avenue as rapidly as possible, that relief from flooding of cellars may be obtained for a district in the vicinity of Spring and Belmont streets.

In conjunction with this work it is proposed to relieve the eight-foot Somerville-avenue sewer main in times of heavy storms by an overflow drain at the East Cambridge boundary line, having its outlet into Miller's river; as a part of this structure would pass through a small section of Cambridge, it was necessary to have an act passed by the Legislature giving the City of Somerville rights outside of the city limits. This act was approved April 15, 1899, with the proviso that the State Board of Health should first approve of the city's plans; these, with a general description of the work contemplated and other miscellaneous data, were duly submitted, and in December a reply was received from the State Board of Health not approving of an outlet into Miller's river.

This river is the city's only available tide water overflow in times of storms for a very large area, and was also originally the outlet for this drainage area, and the State Board of Health, in refusing this application, is causing the city a great inconvenience and heavy expense, as well as giving an erroneous report on the matter, while the cities of Cambridge and Boston are discharging polluted water through over forty sewer overflows, varying in size from one foot to eight feet in diameter, into the Charles river (a stream having the same tides and salt water as Miller's river), all of which are contaminated many times more than the one overflow asked for by this city.

This overflow into Miller's river would only be in operation a few times a year, and the discharge a portion of the same that now reaches Charles river; the same structure proposed to be built would, in the future, take care of all storm water from this area, when the city has been put entirely on the "separate system," which is being accomplished each year as the appropriation will allow.

Another storm water overflow outlet in the easterly section of the city, across the marsh lands of the Reed Heirs and the Boston & Maine Railroad Company, into Mystic river, should be completed at an early date.

Sewers and Drains Constructed in 1899.

Sewers have been constructed during the year on the "separate system" in the vicinity of Concord square and the adjacent streets, varying in size, the largest being twenty-two inches by thirty-three inches brick and the smallest a six-inch pipe, the total length laid amounting to 15,300 linear feet (2.9 miles); the entire length of this new system constructed to date is 3.25 miles.

Fifteen pipe sewers have been laid in different parts of the city, as petitioned for at various times during the year, a combined length of 5,059.1 feet. Record plans have been made showing all locations, and assessments have been levied on the abutting land owners; also four sewers, built in 1898, have been assessed. The total length of sewers constructed during the year was 20,359.1 feet (3.86 miles).

A storm relief drain has been laid in School street, between Summer street and Berkeley street, a length of 437 feet, and overflow connections constructed with the old sewers. In Otis street and Albion street short lengths of pipe drains have been laid to provide for storm water; the total length of storm drains laid during the year amounting to 1,065 linear feet.

Seventy-nine catch-basins have been built during the year in different parts of the city, at a cost of \$3,038.65; this does not include nineteen that were constructed on the line of the Powder-House Boulevard.

The total cost of work done under Sewers Construction account during the year amounted to \$24,100.00.

TABULAR STATEMENT OF SEWERS BUILT IN 1899.

LOCATION.				ITEMS OF CONSTRUCTION AND COST.																				
NAME OF STREET.	FROM	TO	CONTRACTOR.	MATERIAL EXCAVATED.	Average Cut.	SEWER.		SUB-DRAIN.		Cubic yards Rock Excavation.	Price per cubic yard, Rock.	Manholes.	Average Cost Manholes.	Inlets.	PIPE SEWER, COST PER LINEAL FOOT.							Total cost.	Assessment	Cost to City.
						Size in inches.	Length in feet.	Size in inches.	Length in feet.						Main Sewer.	Sub-drain	Pipe, including Sub-drain where laid.	Inspection.	Miscellaneous.	Average cost per lineal foot.				
College ave.	Talbot ave	Professors' row . .	Daniel A. Dorey . .	Hardpan	7.1	8	300.00	.....	.....	0.5	\$2.06	1	\$37.95	18	\$0.35	.....	\$0.18	\$0.03	.....	\$0.63	\$206.32	\$206.32	.....
Concord-sq. Sewer Dist., Sect. 1:																								
Newton st. (north side) .	Clark st.	Joseph st.	Charles A. Kelley .	Sand and clay . . .	10.8	15	268.70	.....	.....	.....	3.00	1	36.58	9	0.71	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Joseph st.	Concord ave. . . .	Charles A. Kelley .	Sand and clay . . .	9.6	12	171.10	.....	.....	.....	3.00	2	36.58	5	0.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
Concord avenue (north side) .	Newton st.	Springfield st. . .	Charles A. Kelley .	Sand and clay . . .	8.6	12	553.80	.....	.....	.....	3.00	2	36.58	21	0.49	.....	.....	.....	.....	.....	.....	.....	.....	.....
Springfield st. (west side) .	Concord ave. . . .	Dickinson st. . . .	Charles A. Kelley .	Sand and clay . . .	7.5	10	337.40	.....	.....	.....	3.00	2	36.58	10	0.52	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Dickinson st. . . .	Near Cambridge line	Charles A. Kelley .	Sand and clay . . .	7.5	8	408.10	.....	.....	.....	3.00	1	36.58	19	0.44	.....	.....	.....	.....	.....	.....	.....	.....	.....
Joseph st. (southwest side) .	Newton st.	Adrian st.	Charles A. Kelley .	Filling and clay . .	10.3	10	285.10	.....	.....	.....	3.00	2	36.58	8	0.53	.....	.....	.....	.....	.....	.....	.....	.....	.....
(both sides)	Newton st.	Near Lincoln park	Charles A. Kelley .	Filling and clay . .	9.8	8	412.60	.....	.....	.....	3.00	.....	.....	16	0.44	.....	0.19	0.02	.....	0.84	5,285.74	.....	\$5,285.74	
Adrian st. (south side) . .	Joseph st.	Marion st.	Charles A. Kelley .	Filling and clay . .	9.0	10	632.20	3	133	0.5	3.00	2	36.58	24	0.53	\$0.15	.....	.....	.....	.....	.....	.....	.....	.....
(north side)	Joseph st.	Marion st.	Charles A. Kelley .	Filling and clay . .	8.8	8	571.00	.....	.....	.....	3.00	2	36.58	22	0.44	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cook st. (both sides) . . .	Marion st.	South Wyatt st. . .	Charles A. Kelley .	Filling	6.4	8	573.40	3	562	.....	3.00	4	36.58	20	0.44	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Marion st. (both sides) . .	Adrian st.	Near Concord ave.	Charles A. Kelley .	Filling	6.7	6	343.60	3	219	.....	3.00	1	36.58	15	0.25	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Dickinson st. (both sides) .	Springfield st. . .	Near Cambridge line	Charles A. Kelley .	Sand and clay . . .	8.2	8	1437.40	.....	.....	.....	3.00	6	36.58	66	0.44	.....	.....	.....	.....	.....	.....	.....	.....	.....
Concord-sq. Sewer Dist., Sect. 2:																								
Webster ave. (west side) . .	Newton st.	Prospect st.	H. A. Hanscom & Co.	Clay	11.	12	316.40	.....	.....	.....	3.00	2	38.34	10	0.76	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prospect st. (west side) . .	Webster ave	Concord ave. . . .	H. A. Hanscom & Co.	Sand and clay . . .	10.5	12	73.70	.....	.....	.....	3.00	2	38.34	1	0.76	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Concord ave. . . .	Oak st.	H. A. Hanscom & Co.	Sand and clay . . .	9.8	10	319.20	.....	.....	.....	3.00	2	38.34	11	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Oak st.	Near Houghton st.	H. A. Hanscom & Co.	Sand and clay . . .	7.5	8	627.00	3	183	.....	3.00	2	38.34	32	0.39	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Newton st. (south side) . .	Webster ave. . . .	Near Concord sq . .	H. A. Hanscom & Co.	Clay	8.4	8	605.50	.....	.....	0.5	3.00	1	38.34	24	0.39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Concord ave. (south side) .	Prospect st.	Springfield st. . .	H. A. Hanscom & Co.	Sand and clay . . .	7.9	10	986.2	3	44	.....	3.00	3	38.34	52	0.49	0.15	.....	.....	.....	.....	.....	.....	.....	.....
(north side)	Prospect st.	Near Concord sq . .	H. A. Hanscom & Co.	Sand and clay . . .	8.4	8	510.00	.....	.....	.....	3.00	1	38.34	12	0.39	.....	0.16	0.03	.....	0.70	6,737.84	.....	6,737.84	
Springfield st. (east side) .	Concord ave	Near Cambridge line	H. A. Hanscom & Co.	Sand and clay . . .	7.5	8	749.30	.....	.....	3	3.00	1	38.34	28	0.39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oak st. (both sides)	Prospect st.	Near Cambridge line	H. A. Hanscom & Co.	Sand	6.8	8	2376.70	3	1,409	.....	3.00	8	38.34	104	0.39	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Bolton st. (both sides) . . .	Oak st.	Houghton st. . . .	H. A. Hanscom & Co.	Sand	6.9	8	962.30	3	850	.....	3.00	.....	.....	39	0.39	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Houghton st. (south side) .	Oak st.	Near Prospect st. .	H. A. Hanscom & Co.	Sand	5.5	8	374.00	3	374	.....	3.00	1	38.34	23	0.39	0.15	.....	.....	.....	.....	.....	.....	.....	.....
(both sides)	Springfield st. . .	Near Cambridge line	H. A. Hanscom & Co.	Sand	6.2	6	618.10	3	300	.....	3.00	2	38.34	30	0.29	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Court off Washington st. . .	No. 255 Washington st.	Northerly . . . . .	.....	Sand and clay . . .	5.	8	115.00	.....	.....	.....	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evergreen ave.	Marshall st.	Near School st. . .	Charles A. Kelley .	Hardpan	6.5	12	340.30	5	81	.....	.....	1	35.25	23	0.41	0.15	0.32	0.03	\$0.01	0.97	339.00	329.16	0.91	
Fairview ter.	Sycamore st	Easterly . . . . .	.....	.....	5.5	8	100.00	.....	.....	.....	.....	.....	.....	2	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Florence ter.	Jaques st.	Southerly	Maurice Buttiner .	Hardpan and rock .	6.1	8	117.30	.....	.....	.....	.....	.....	.....	5	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gordonia road.	Old Sewer	Angle	Bartholomew Burke	Hardpan and clay .	8.2	10	131.00	.....	.....	.....	.....	1	.....	1	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Medford st.	Old Sewer	Near Walnut st . .	Charles A. Kelley .	Hardpan	11.2	10	168.60	.....	.....	.....	.....	1	45.50	8	0.62	.....	0.16	0.09	0.01	1.15	193.57	146.00	47.57	
Murray st.	Washington st. . .	Southerly	D. C. Collins	Filling	6.4	12	186.8	.....	.....	.....	.....	2	35.65	13	0.58	.....	0.33	0.09	.....	1.38	257.39	226.76	30.63	
Museum st.	Beacon st.	Southwesterly . . .	.....	Sand	7.	8	155.00	.....	.....	.....	.....	.....	.....	2	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mystic st.	Washington st. . .	Southerly	C. H. Eglee & Co.	Sand	5.	8	97.50	.....	.....	.....	.....	.....	.....	1	Built at Mass. Pipe Line Gas Co.'s expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Packard ave. and Private lands	Electric ave	Private Lands . . .	T. F. Crimmings . .	Clay and sand . . .	9.2	16 x 24	406.8	5	406.8	.....	4.00	1	35.90	31	1.47	0.20	.....	.....	.....	.....	.....	.....	.....	.....
	Packard ave. . . .	Curtis st.	T. F. Crimmings . .	.....	4.5	12	733.4	5	458.7	1.2	4.00	.....	.....	2	0.20	0.20	.....	0.07	0.01	1.31	1,498.93	663.14	826.79	
Prospect st and Newton st. . . .	Somerville ave. . .	Newton st.	Daniel A. Dorey . .	Clay and sand . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Prospect st.	Clark st.	Daniel A. Dorey . .	Sand, gravel, and clay	12.8	22 x 33	787.2	5, 6	723	2.3	6.00	6	.....	51	.....	0.25	.....	.....	.....	4.96	3,907.94	.....	3,907.94	
Prospect st.	Oak st.	Cambridge line . .	C. H. Eglee & Co..	Clayey sand	6.3	12	676.5	.....	.....	.....	.....	3	.....	21	Built at Mass. Pipe Line Gas Co.'s expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sycamore st.	Richdale ave. . . .	Willoughby st. . . .	C. A. Mongan	Gravel	4.9	12	286.9	.....	.....	.....	.....	3	33.60	8	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....
and Willoughby st.	Sycamore st.	Central st.	C. A. Mongan	Gravel and clay . .	*10	39.3	.....	.....	.....	.....	.....	.....	.....	32	0.38	.....	0.31	0.05	.....	0.94	737.37	658.45	78.92	
					8.2	10	444.1	.....	.....	2.9	4.50	2	33.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stone pl.	Stone ave.	Easterly	T. F. Crimmings . .	Sand and clay . . .	6.7	6	130.0	.....	.....	.....	.....	.....	.....	2	Built at petitioners' expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington st.	Mystic st.	Westerly	C. H. Eglee & Co.	Sand	5.	8	296.7	.....	.....	.....	.....	2	.....	8	Built at Mass. Pipe Line Gas Co.'s expense.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Windham road	Washington st. . .	Columbus ave. . . .	R. Falvey	Hardpan	6.6	10	293.6	.....	.....	.....	.....	3	30.20	23	0.37	.....	0.15	0.04	.....	0.83	277.09	277.04	0.05	
	Columbus ave. . . .	Northerly	R. Falvey	Hardpan	8.0	8	40.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total length and cost of new sewers built in 1899						20,359.1																\$19,423.28	\$2,506.89	\$16,916.39

* Iron pipe across Sycamore st. bridge.

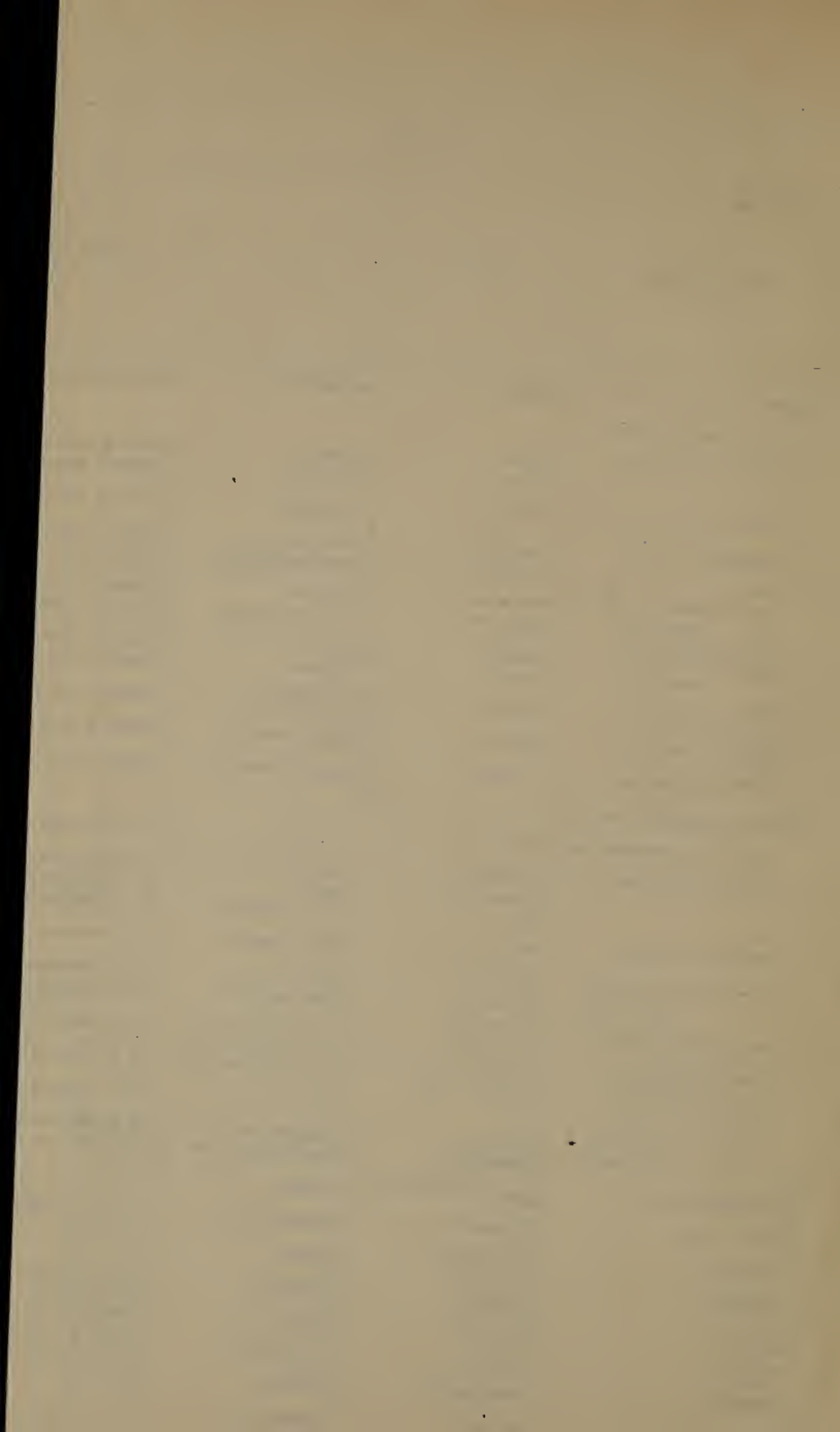
Total length of sewer built by the city January 1, 1900 359,664.5 feet

Total length of private sewers in the city January 1, 1900 33,465.0 feet

Total length of sewers in the city January 1, 1900 384,129.5 feet, or 72.75 miles.

THE FOLLOWING SEWERS WERE BUILT IN 1898 AND ASSESSED IN 1899.

NAME OF STREET.	FROM	TO	CONTRACTOR.	TOTAL COST.	ASSESSMENT.	COST TO CITY.
Curtis st.	Electric ave.	Conwell ave.	Daniel A. Dorey	\$1,065 47	\$1,004 86	\$60 61
North st. and Raymond ave.	Private lands	Raymond ave. Southeasterly	Daniel A. Dorey . . . . .	.....	.....	.....
	North st. . . . .	.....	Daniel A. Dorey	1,844 59	1,844 45	0 14
Private lands	Alewife Brook	North st.	Richard Falvey	885 86	442 93	442 93
Raymond ave.	Curtis st.	Northwesterly	Daniel A. Dorey	164 37	164 30	0 07
				\$3,960 29	\$3,456 54	\$503 75



The total length of sewers in the city is seventy-two and three-quarters miles, and the total cost of constructing has been about \$862,600.00.

Total length of storm drains in the city, three miles; total cost of construction, \$132,637.00.

Total number of catch-basins in the city, 1,039.

In the table showing sewers built in 1899 will be found an itemized statement of construction and cost.

Metropolitan Sewer Connections.

No new connections were made with the Metropolitan sewerage system during 1899. The local system has eight **connections** within the city's limits and two outlets through other cities, one discharging in Medford and the other through Cambridge, connecting with the Metropolitan mains; there are about seventy-two miles of the city's sewers discharging through these ten outlets and taking the house drainage of over 11,300 buildings.

Somerville's assessment for maintenance of the Metropolitan system for 1899 was \$13,579.65, and on construction account, \$29,278.44; the total paid the Commonwealth of Massachusetts by this city for the construction and maintenance of the Metropolitan sewerage system, to date, amounts to \$245,364.46.

An area of about twenty-one acres in the vicinity of Mt. Benedict, East Somerville, is the only district in the city not connected with the Metropolitan sewer; a connection should be made at North Union street, preventing the discharge of this sewage into Mystic river.

Maintenance of the Sewerage System, 1899.

A force of men are kept continually cleaning and flushing the catch-basins and sewer mains, and repairing the old structures throughout the city; this work increases each year as new work is added to the system, and is one of the most important items in the city's welfare, its sanitary condition.

Three hundred and twelve permits were granted licensed drainlayers for connecting house drains with the public sewers during the year, and for the repairs and alterations of eighty-six old drains.

Fifty-five drains were changed, eleven catch-basins rebuilt, and two sewers constructed on the line of work where the Massachusetts Pipe Line Gas Company's mains were laid in this city; thirty drains and a number of catch-basins were altered where the New England Telephone and Telegraph Company's underground conduits were constructed.

The inspection of sewers, drains, and alterations on the line of work where the Massachusetts Pipe Line Gas Company's mains were laid amounted to \$364.11, and on the line of work where the New England Telephone and Telegraph Company's

conduits were constructed amounted to \$75.93, the city being reimbursed the above amounts by the respective companies.

The cost of inspecting and locating private house drains and connections with sewer mains has been \$485.55.

The cost of changing the line and grade and repairing man-holes, the flushing, cleaning, repairing, and general maintenance of the sewer mains during the year amounted to \$3,338.79.

The cost of changing the line and grade, repairing, cleaning, flushing, and general maintenance of catch-basins during the year amounted to \$4,088.

The total cost of work done under Sewers Maintenance account during the year, including rent of water course, amounted to \$9,181.66.

An itemized statement of cost will be found in the report of the Committee on Sewers.

PUBLIC GROUNDS DEPARTMENT.

Work on the completion of Lincoln Park was commenced early in the season, and carried on during the year from time to time, as materials could be obtained at the best advantage on the various parts of work. Large quantities of filling material have been obtained by cars on the Fitchburg railroad, and all surplus earth excavated from the sewer, gas, telephone, and other trenches has been deposited in Wyatt's Pit, in all about 30,000 cubic yards, the past year.

The filthy water in the pit was pumped out, the bottom covered with gravel, the sides cleaned, regraded, and fenced, and all dumping of rubbish and refuse material has been prohibited, so that now the enclosed pond is an additional attraction to the new park. The grading of the athletic field has been completed, and the field used during the last season for games, the driveway around the playgrounds has been macadamized, catch-basins constructed, and trees and shrubbery planted at intervals on the roadway and walks.

In a few years' time this park will be one of the most attractive open spots in the city, and will have one of the best athletic fields in the vicinity; the amount expended on construction during the year was \$10,006.83, and the total cost of constructing Lincoln Park has been \$14,994.70.

Lincoln Park Construction, 1899.

Constructing driveway, catch-basins, sidewalks, etc., labor and materials	\$3,806 42
Laying out and grading athletic field, labor and materials	2,509 29
Pumping and cleaning Wyatt's Pit, labor	263 87
Filling material for pit, labor, and teaming	1,987 05
Regrading sides of pit	744 12
Building for dressing room, fences, etc.	329 08
Trees, shrubbery and planting	367 00
Total expenditure, 1899	<hr/> \$10,006 83

Two areas, one located on Webster avenue, near the Cambridge city line, the other corner of Somerville avenue and Kent street, both formerly schoolhouse lots, have been laid out as small parks the past year. The land has been regraded and loamed, grass seed sown, walks constructed, and shrubbery planted, the entire cost amounting to \$662.95.

The general maintenance of the public grounds has been carried on in different sections of the city similar to the past few years. Florist J. W. Howard has furnished beds of bulbs, flowers, foliage plants, and shrubbery, in their season, on the various parks; the pond in Broadway Park during cold weather has been kept in condition for skating, also an area on Elm street and Lincoln Park have been flooded for skating purposes.

The parks have had special police service throughout the year, and a number of minor changes for improvement have been made on the different grounds. The iron fence that surrounded Broadway Park has been removed and sold, the Metropolitan Park Commission taking the streets (Winthrop and Chauncey avenues) on either side and completing them as boulevards.

The total area maintained by the Public Grounds Department is 51.7 acres.

Cost of Maintenance, Public Grounds, 1899.

Broadway Park, labor, materials, etc.	\$2,998 78
Broadway Parkway, labor, materials, etc.	256 88
Central-hill Park, labor, materials, etc.	2,435 14
Lincoln Park, labor, materials, etc.	1,425 29
Nathan Tufts Park, labor, materials, etc.	1,328 90
Elm-street Playgrounds, labor, materials, etc.	261 02
Kent-street Playgrounds, labor, materials, etc.	485 00
Webster-avenue Playgrounds, labor, materials, etc.	177 95
Glen-street Playgrounds, labor, materials, etc.	83 06
Somerville-avenue Cemetery, labor, materials, etc.	102 82
Incidentals	48 00
Total expenditure	<hr/> \$9,602 84

Powder-House Boulevard.

During the year 1899, by authority from the Legislature, the city has taken land for a boulevard in the westerly part of the city, extending from Powder-house square northwesterly across land of Tufts College, crossing Packard avenue, land of Teele, crossing Curtis street, land of Dow and Blaney and Robinson, crossing North street, thence along the easterly bank of Alewife brook to the Medford city line, at the junction of Mystic river and the brook, a length of 7,200 feet. All but one parcel of land (the exception being a valuable house lot) was given by the different owners for boulevard purposes.

This boulevard, when completed, is to have a driveway forty feet in width, bordered on each side with grass plots seven feet wide, sidewalks eight feet in width, and between the sidewalks

and house lots a planting space for trees, five feet wide, making the total width of the boulevard eighty feet; also there are restrictions placed on the adjoining land as to location, cost, and character of buildings to be erected.

In October work on construction was commenced, and the roadway, forty feet in width, was subgraded as far westerly as North street, a length of 4,300 feet; drains, culverts, and catch-basins were constructed, and the loam stripped on the sides. The total cost of the work done was as follows:—

Thomas H. Gill, contractor, labor and materials furnished	\$8,098 93
City, labor and materials furnished	679 92
Total cost construction	\$8,778 85
Land taken, paid for	1,389 82
Total expenditure, 1899	\$10,168 67

HIGHWAYS.

During the year 1899 nineteen streets were accepted, an aggregate length of 11,029 feet, making the total length of public streets 60.11 miles; a number of private streets have been added, making a total of 30.59 miles, and a sum total, public and private streets in the city, January 1, 1900, 90.70 miles.

Lines, grades, and estimates have been given the past year for setting 13,094.4 linear feet (2.48 miles) of new edgestone, and for the laying of 12,027.8 square yards of new brick sidewalks, making a total length in the city of 78.4 miles sidewalks, with edgestone, and 52.2 miles of brick sidewalks.

Three thousand one hundred square feet of crosswalks have been laid, about one-half being of vitrified brick.

Considerable repair work on sidewalks has been done during the year, 1.16 miles of edgestone have been reset, 6,200 square yards of brick walks have been relaid, and 4,800 square feet of crosswalks relaid.

One-third of a mile of paved street was constructed the past year, making a total of 2.75 miles of streets paved with granite blocks; and there are about forty-eight miles of macadamized streets in the city.

A new iron bridge has been constructed over the Fitchburg railroad tracks at the junction of Beacon street and Somerville avenue; this modern structure is of the full width of the street, having sidewalks on either side ten feet in width, and two roadways, each twenty-two feet in width, with the electric car tracks placed in the centre. The old bridge was a narrow, wooden structure.

Washington street has been paved on the northerly side, between the Charlestown line and Tufts street, with granite blocks

Table Showing Sidewalks Constructed (not exceeding one-half cost assessed on abutters) and Paved Gutters Laid in Connection Therewith in 1899.

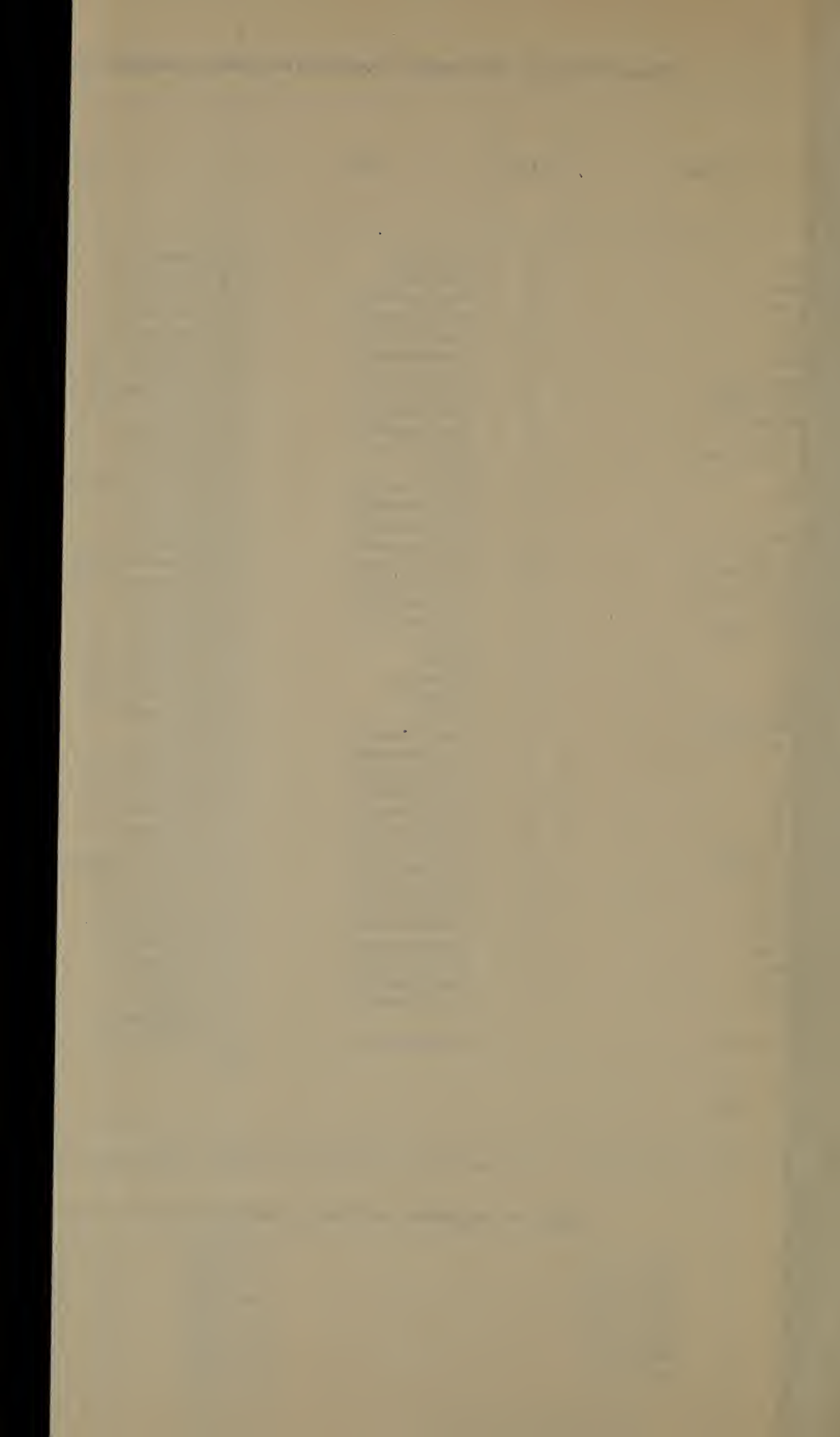
STREET.	WARD.	SIDE.	FROM	To	WIDTH OF SIDEWALK IN FEET.	MATERIALS.		TOTAL COST.	PAVED GUTTERS.	
						Gravel and Edgestones. Lineal feet.	Bricks. Sq. Yards.		Sq. Yards.	Cost.
Adrian	2	Northerly	Marion st.	Joseph st.	6.67	562.0	.....	\$413 35	187	\$179 25
Adrian	2	Southerly	Marion st.	Joseph st.	6.67	597.6	.....	446 60	199	224 35
Aldersey	3	Northeasterly	Walnut st.	Vinal ave.	6.67	.....	314.9	359 89	.....	.....
Avon	3	Northeasterly	Central st.	School st.	6.67	.....	859.5	915 95	.....	.....
Bartlett	5	Northwesterly	Medford st.	Vernon st.	6.67	.....	571.5	584 01	.....	.....
Bartlett	5	Southeasterly	Robinson st.	Medford st.	6.67	.....	129.7	131 43	.....	.....
*Benton road	5	Southeasterly	Highland ave.	Hudson st.	6.67	.....	192.8	320 80	.....	.....
(1) Broadway	4	Southwesterly	Montgomery ave.	Odd Fellows' block	15.00	.....	819.0	892 95	.....	.....
Browning road	5	Northwesterly	Estate of Fitz	Central st.	6.67	254.8	169.6	318 57	84	136 20
Cambria	6	Northeasterly	Central st.	Benton road	6.67	.....	334.5	309 15	.....	.....
Charnwood road	6	Northeasterly	Willow ave.	Gordonia road	6.67	1,244.5	.....	894 14	415	528 30
Cook	2	Both	Marion st.	South Wyatt st.	6.67	569.5	.....	412 84	190	185 35
Cypress	6	Southwesterly	Estate of Atsatt	Beech st.	6.67	198.7	.....	145 86	66	60 35
Day	7	Northwesterly	Davis sq.	Cambridge line	6.67	.....	561.8	484 16	.....	.....
Gorham	7	Northwesterly	Holland st.	Howard st.	6.67	772.6	.....	546 43	258	272 40
Hancock	6	Northwesterly	Elm st.	Summer st.	6.67	.....	535.2	519 19	.....	.....
Highland avenue	6 & 7	Southwesterly	Gordonia road	Highland School	10.00	1,535.3	.....	1,160 12	512	627 60
Highland avenue	3	Southwesterly	Estate of Mayo	Estate of Baldwin Heirs	10.00	.....	101.5	114 30	.....	.....
Jaques	4	Southwesterly	Temple st.	Chauncey ave.	6.67	.....	757.9	696 88	.....	.....
Kidder avenue	7	Southwesterly	Elm st.	Estate of Lowell	6.67	.....	362.3	401 49	.....	.....
Lee	5	Both	Richdale ave.	Medford st.	6.67	.....	531.0	531 14	.....	.....
Lowell	6	Both	Highland ave.	Crown st.	6.67	1,220.4	.....	1,010 91	407	580 65
Marion	2	Westerly	Concord ave.	Cook st.	6.67	260.7	.....	182 30	87	74 13
Marion	2	Easterly	Concord ave.	Adrian st.	6.67	211.8	.....	167 81	71	98 76
Oakland avenue	4	Both	Marshall st.	School st.	6.67	.....	549.2	500 39	.....	.....
Park avenue	7	Northeasterly	Elm st.	Chandler st.	6.67	.....	172.8	146 51	.....	.....
Pearl	4	Northeasterly	Walnut st.	Litchfield's block	8.33	.....	500.9	529 47	.....	.....
Prescott	3	Northwesterly	Highland ave.	Summer st.	8.33	.....	929.7	838 25	.....	.....
Quincy	3	Southeasterly	Somerville ave.	Summer st.	6.67	.....	508.8	536 99	.....	.....
Russell	7	Northwesterly	Orchard st.	Elm st.	6.67	446.3	.....	370 37	149	199 08
School	3	Northwesterly	Highland ave.	Preston st.	6.67	142.7	582.3	712 92	48	53 50
Stone avenue	3	Northwesterly	Union sq.	Estate of Gould	6.67	.....	405.3	417 09	.....	.....
Stone avenue	3	Southeasterly	Estate of Stone Heirs	Columbus ave.	6.67	.....	382.8	394 52	.....	.....
Summer	6	Northeasterly	Willow ave.	Cherry st.	7.50	844.4	.....	623 56	281	355 00
Summer	7	Northeasterly	Willow ave.	Cutter ave.	7.50	883.1	.....	750 50	294	371 84
Tennyson	5	Southeasterly	Medford st.	Forster st.	6.67	.....	322.3	327 38	.....	.....
Thurston	5	Northwesterly	Medford st.	Richdale ave.	6.67	.....	218.8	246 68	.....	.....
Virginia	4	Southwesterly	Aldrich st.	Jasper st.	6.67	.....	271.5	237 40	.....	.....
Virginia	4	Northeasterly	Aldrich st.	Jasper st.	6.67	.....	273.7	251 88	.....	.....
Walnut	4	Southeasterly	Pearl st.	Estate of Veazie	6.67	.....	205.4	185 91	.....	.....
Willow avenue	6	Southeasterly	Highland avenue	Summer street	8.33	736.3	.....	609 28	245	196 18
			Elm street	To and including Estate No. 37 }						
Totals						10,480.7	11,504.7	\$19,639 37	3,493	\$4,142 94

(1) Brick and grass strip. * Granolithic (city paid equivalent one-half cost of a brick sidewalk). Total assessment, \$9,883.77. Net cost to city, \$9,755.60.

Length of Edgestone and Brick Sidewalk in Each Ward.

	Edgestone.	Brick.
Ward One	14.1 miles.	11.1 miles.
Ward Two	8.2 miles.	3.6 miles.
Ward Three	11.9 miles.	10.9 miles.
Ward Four	11.1 miles.	7.5 miles.
Ward Five	10.8 miles.	8.3 miles.
Ward Six	12.2 miles.	6.0 miles.
Ward Seven	10.1 miles.	5.8 miles.

Total lengths in the city 78.4 miles. 53.2 miles.



laid on a gravel foundation, the edgestone reset, and old brick sidewalk relaid. The length of street paved was 1,800 linear feet, and the total cost of the work done was as follows:—

Patrick McGovern, contractor, labor and materials furnished	\$4,266 03
City, inspection and materials furnished	5,982 35
Total cost construction	<u>\$10,248 38</u>

Following are tables showing streets accepted during the year, and lengths and cost of new sidewalks and paved gutters laid; also the number of miles of accepted streets and miles of sidewalks in each ward of the city.

In the report of the Committee on Highways will be found an itemized account of the total expenditures and miscellaneous work done, the foregoing work referred to being that portion connected with the Engineering Department.

Streets Accepted in 1899.

NAME OF STREET.	WARD.	FROM	TO	Width in Feet.	Length in Feet.
Alston	1	Cross st.	Shawmut pl.	40	567
Atherton	6	Central st.	Beech st.	40	264
Bartlett	5	Medford st.	Broadway	40	730
Benton road	6	Summer st.	Highland ave.	40	922
Bolton	2	Oak st.	Houghton st.	40	476
Bowdoin	2	Washington st.	Fremont ave.	40	247
George	1	Broadway	Lincoln ave.	30	275
Houghton	2	Oak st.	Cambridge line	40	449
Lesley ave.	6	Highland ave.	Lexington ave.	40	333
Liberty ave.	7	Broadway	Hall ave.	40	1,395
Lincoln ave.	1	Lincoln st.	Mt. Vernon st.	30	478
Melvin	4	Broadway	Bonair st.	40	487
Oak	2	Angle in st.	Cambridge line	30	563
Oxford	3	School st.	Central st.	35	1,361
Tennyson	5	Medford st.	Pembroke st.	40	400
Thorndike	7	Holland st.	Arlington Br. R.R.	40	465
Wesley	4	Pearl st.	Otis st.	40	515
Wyatt (South)	2	Concord ave	Lincoln parkway	40	496
Wyatt (North)	2	Washington st.	Lincoln parkway	40	606
Total					11,029

Length of Accepted Streets in Each Ward.

	Miles
Ward One	8.5
Ward Two	6.5
Ward Three	6.1
Ward Four	7.8
Ward Five	9.8
Ward Six	9.2
Ward Seven	12.21
Total length of accepted streets in the city.	<u>60.11</u>

WATER DEPARTMENT.

The Engineering Department has located all new water mains extended and all mains relaid in the various streets, a total length of about seven miles, and located accurately all hydrants, gates, and house services.

During the year there were 248 of these house services, which have been recorded in the office and plotted on plans for future reference. All blow-off connections for emptying the water mains into the sewerage system have been inspected and located.

Lines, grades, and miscellaneous information have been given whenever requested by the Water Department.

A new map of the entire city on a scale of 200 feet to an inch has been made for the Water Department, showing all water mains, gates, hydrants, and blow-off connections, the high service mains being shown in one color and the low service by another.

An itemized account of the work done will be found in the report of the Water Department.

Appended Table.

Following this report is a table giving names of all streets in the city, showing their location, whether public or private, length and width.

Respectfully submitted,

ERNEST W. BAILEY,

City Engineer.

TABLE SHOWING THE LOCATION, LENGTH, AND WIDTH OF PUBLIC AND PRIVATE STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Adams	Broadway . . .	Medford st. . .	Public.	40	900	....
Adrian	Marion st. . .	Joseph st. . .	Public.	40	579	....
Albion pl. . . .	Albion st. . .	Northeasterly . .	Private.	10	....	166
Albion ct. . . .	Albion st. . .	Southwesterly . .	Private.	16	....	116
Albion	Central st. . .	Cedar st. . .	Public.	40	2,742	....
Albion	Broadway . . .	Medford line . .	Private.	50	....	100
Albion ter. . . .	Albion st. . .	Southwesterly . .	Private.	25	....	100
Aldersey	Walnut st. . .	Vinal ave. . .	Public.	40	508	....
Aldrich	Pearl st. . .	B. & L. R. R. . .	Public.	40	611	....
Alfred	Broadway . . .	Medford line . .	Private.	50	....	50
Allen	Somerville ave. .	Charlestown st. .	Private.	25	....	680
Allen ct. . . .	Park st. . .	Northwesterly . .	Private.	20	....	150
Alpine	Cedar st. . .	Southeasterly . .	Private.	30	....	670
Alpine	Alpine st. . .	Lowell st. . .	Public.	40	688	....
Alston	Cross st. . .	Shawmut pl. . .	Public.	40	567	....
Ames	Bartlett st. . .	Robinson st. . .	Public.	40	580	....
Appian way . . .	Talbot ave. . .	Professors' row. .	Private.	60	....	250
Appleton	Willow ave. . .	Clifton st. . .	Public.	40	510	....
Appleton	Clifton st. . .	Liberty ave. . .	Private.	40	....	120
Arlington	Franklin st. . .	Lincoln st. . .	Public.	40	440	....
Arnold ave. . . .	Porter st. . .	Southeasterly . .	Private.	15	....	127
Arnold ct. . . .	Beacon st. . .	Northeasterly . .	Private.	10	....	115
Arthur ct. . . .	Linden st. . .	Easterly . . .	Private.	about 10	....	100
Arthur	Broadway . . .	Bonair st. . .	Public.	40	438	....
Ash ave. . . .	Meacham st. . .	Northeasterly . .	Private.	40	....	705
Ashland	Summer st. . .	Sartwell ave. . .	Public.	30	478	....
Atherton	Central st. . .	Beech st. . .	Public.	40	264	....
Auburn ave. . . .	Cross st. . .	B. & L. R. R. . .	Private.	30	....	600
Austin	Broadway . . .	Mystic ave. . .	Public.	40	680	....
Autumn	Broadway . . .	Bonair st. . .	Private.	20	....	420
Avon	School st. . .	Central st. . .	Public.	40	1,360	....
Avon pl. . . .	Cross st. . .	B. & L. R. R. . .	Private.	25	....	150
Ayer ave. . . .	Morrison ave. .	Boston ave. . .	Private.	70	....	1,500
Banks	Elm st. . .	Summer st. . .	Public.	40	639	....
Bartlett	Vernon st. . .	Broadway . . .	Public.	40	1,550	....
Bartlett	Washington st. .	Asylum grounds .	Private.	20	....	200
Barton	Broadway . . .	Russell road. . .	Private.	40	....	382
Bay State ave. . .	Broadway . . .	Fosket st. . .	Private.	40	....	1,197
Beach ave. . . .	Webster ave. . .	Columbia st. . .	Private.	about 20	....	200
Beacon pl. . . .	Beacon st. . .	Northeasterly . .	Private.	15	....	200
Beacon	Cambridge line .	Somerville ave. .	Public.	66	6,100	....
Beacon ter. . . .	Somerville ave. .	Northeasterly . .	Private.	24	....	110
Bean's ct. . . .	Cutter st. . .	Southeasterly . .	Private.	16	....	100
Bedford	South st. . .	Cambridge line .	Private.	30	....	160
Beech	Somerville ave. .	Spring st. . .	Public.	40	800	....
Bellevue ter. . .	Albion st. . .	Northeasterly . .	Private.	20	....	90
Belknap	Broadway . . .	Russell road. . .	Private.	40	....	449
Belmont	Somerville ave. .	Highland ave. . .	Public.	40	2,175	....
Belmont pl. . . .	Belmont st. . .	Southeasterly . .	Private.	25	....	175
Benedict ave. . .	Broadway . . .	Benedict st. . .	Private.	20	....	200
Benedict	Union st. . .	Austin st. . .	Public.	40	600	....
Bennett ct. . . .	Bennett st. . .	Prospect st. . .	Private.	10	....	100
Bennett	Prospect st. . .	Bennett ct. . .	Private.	40 to 25	....	400
Benton road . . .	Summer st. . .	Hudson st. . .	Public.	40	1,208	....
Berkeley	School st. . .	Central st. . .	Public.	40	1,360	....
Berwick	Lawrence st. . .	Northwesterly . .	Private.	20	....	170
Bigelow	Boston st. . .	High st. . .	Public.	50	208	....
Billingham	Broadway . . .	William st. . .	Public.	40	563	....
Bishop's pl. . . .	Glen st. . .	Easterly . . .	Private.	10	....	75
Blakeley ave. . .	Winthrop ave. .	Cross st. . .	Private.	40	....	630
Bleachery ct. . .	Somerville ave. .	Fitchburg R. R. .	Private.	30	....	450
Bolton	Oak st. . .	Houghton st. . .	Private.	40	....	500
Bonair	Cross st. . .	Walnut st. . .	Public.	40	1,470	....
Bond	Broadway . . .	Jaques st. . .	Public.	40	640	....
Bonner ave. . . .	Washington st. .	Columbus ave. . .	Public.	40	450	....
Boston ave. . . .	Medford line . .	Mystic river . .	Public.	60	910	....

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Boston ave. . . .	Broadway	Medford line	Public.	50	80	....
Boston ave. . . .	Cedar st.	Broadway	Private.	50	....	1,120
Boston	Washington st. . .	Prospect Hill ave. .	Public.	45	630	....
Boston	Prospect Hill av. .	Walnut st.	Public.	40	1,250	....
Bow	Union sq.	Wesley sq.	Public.	60	600	....
Bow	Wesley pk.	Somerville ave. . .	Public.	50	500	....
Bowdoin	Washington st. . .	Fremont ave. . . .	Public.	40	247	....
Bowdoin	Fremont ave. . . .	Lincoln park . . .	Private.	40	....	94
Bowers ave. . . .	Cottage ave. . . .	Elm st.	Private.	24	....	288
Bow St. pl. . . .	Bow st.	Northwesterly . . .	Private.	40	....	300
Bradford ave. . .	School st.	Southeasterly . . .	Private.	40	....	150
Bradley	Pearl st.	Walter st.	Public.	40	762	....
Brastow ave. . .	Lowell st.	Porter st.	Public.	40	686	....
Bristol road . . .	Broadway	Medford line . . .	Private.	40	....	98
Broadway	Charlestown line .	Cross st.	Public.	100	2,590	....
Broadway	Cross st.	Marshall st. . . .	Public.	100 to 200	2,060	....
Broadway	Marshall st. . . .	Main st.	Public.	100	1,570	....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	....
Broadway	Top of hill	Albion st.	Public.	90	2,540	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	....
Broadway	Paulina st.	Arlington line . . .	Public.	65	3,220	....
Broadway pl. . .	Broadway	Southwesterly . . .	Private.	22	....	250
Bromfield road .	Elm st.	Professors' row . .	Private.	40	....	1,260
Brook	Glen st.	Cross st.	Public.	40	500	....
Brook	Dover st.	Northerly	Private.	40	....	200
Browning road .	Sycamore st. . . .	Central st.	Public.	40	679	....
Buckingham . . .	Beacon st.	Dimick st.	Public.	40	300	....
Burnside ave. . .	Elm st.	Summer st.	Public.	40	720	....
Caldwell pl. . . .	Washington st. . .	Southerly	Private.	20	....	210
Calvin	Beacon st.	Dimick st.	Private.	40	....	250
Calvin	Dimick st.	Washington st. . .	Private.	30	....	395
Cambria	Central st.	Benton road	Public.	40	488	....
Cameron ave. . .	Holland st.	Cambridge line . . .	Public.	60	1,000	....
Campbell pk. . . .	Meacham st. . . .	Kingston st.	Public.	40	399	....
Campbell Pk. pl. .	Kingston st. . . .	Arlington Br. R.R. .	Private.	20	....	84
Carlton	Somerville ave. . .	Lake st.	Public.	40	300	....
Carver	Porter st.	Northwesterly . . .	Private.	40	....	156
Cedar ave.	Cedar st.	Liuden ave.	Private.	22	....	290
Cedar St. pl. . . .	Murdock st.	Southwesterly . . .	Private.	20	....	220
Cedar St. pl. . . .	Cedar n'r Elm st. .	Southeasterly . . .	Private.	12+	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,150	....
Central	Somerville ave. . .	Summer st.	Public.	33	1,150	....
Central	Summer st.	Medford st.	Public.	40	2,430	....
Central	Medford st.	Broadway	Public.	45	1,070	....
Centre	Albion st.	B. & L. R. R. . . .	Private.	35	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....
Chapel	Elm st.	Chandler st.	Public.	40	273	....
Chapel ct.	Sycamore st.	Northwesterly . . .	Private.	12	....	130
Charles	Washington st. . .	Asylum grounds .	Private.	30	....	200
Charlestown . . .	Allen st.	Easterly	Private.	15	....	400
Charnwood road .	Willow ave.	Gordonia road . . .	Public.	40	589	....
Chauncey ave. . .	Broadway	Mystic ave.	Public.	50	1,320	....
*Chelsea	Mystic ave.	Melrose st.	Private.	50	....	1,390
Cherry	Elm st.	Highland ave. . . .	Public.	45	1,450	....
Chester	Elm st.	Cambridge line . . .	Public.	40	850	....
Chester ave. . . .	Medford st.	Angle	Public.	about 22	220	....
Chester ave. . . .	Angle	Cross st.	Private.	20	....	445
Chester pl.	Chester st.	Northwesterly . . .	Private.	40	....	200
Chestnut	Poplar st.	Southeasterly . . .	Private.	40	....	540
Church	Summer st.	Somerville ave. . .	Public.	40	560	....
Church (south) . .	Somerville ave. . .	Lake st.	Public.	40	340	....
Church St. pl. . .	Church st. (south)	Northwesterly . . .	Private.	25	....	170
Claremon	Holland st.	Mead st.	Public.	40	560	....
Clarendon ave . .	Broadway	Cambridge line . . .	Private.	40	....	1,210

*Proposed.

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Clark	Newton st. . . .	Lincoln parkway .	Private.	35	....	545
Cleveland	Central st. . . .	Elm pl.	Private.	40	....	270
Clifton	Appleton st. . . .	Morrison st. . . .	Public.	40	240	....
Clifton	Morrison st. . . .	Arlington Br. R.R.	Private.	40	....	220
Clyde	Cedar st.	Murdock st. . . .	Private.	30	....	600
College ave. . . .	Broadway	Medford line . . .	Public.	60	1,700	....
Columbia	Glass House ct. . .	Cambridge line . .	Private.	40	....	550
Columbia ct. . . .	Columbia st. . . .	Webster ave. . . .	Private.	9	....	150
Columbus ave. . . .	Windham road . . .	Northwesterly . .	Private.	40	....	73
Columbus ave. . . .	End of above . . .	Walnut st.	Public.	40	1,000	....
Concord ave. . . .	Prospect st. . . .	Leon st.	Public.	40	1,500	....
Concord ave. . . .	Leon st.	Beacon st.	Private.	30	....	470
Congress pl. . . .	Linwood st. . . .	Southwesterly . .	Private.	16	....	200
Conlon ct.	Columbia st. . . .	Easterly	Private.	20	....	200
Conwell ave. . . .	Curtis st.	Westerly	Private.	40	....	600
Conwell	Highland ave. . . .	Southwesterly . .	Private.	35	....	360
Cooney	Beacon st.	Line st.	Private.	26	....	220
Cottage ave. . . .	Russell st.	Chester st.	Public.	40	500	....
Cottage circle . . .	Cottage ave	Southwesterly . .	Private.	25	....	87
Cottage pl.	Washington st. . . .	Northwesterly . .	Private.	about 11.	....	150
Craigie	Somerville ave. . . .	Summer st.	Public.	50	1,250	....
Crescent	Washington st. . . .	Pearl st.	Private.	30 to 38	....	650
Crocker	Highland ave. . . .	Crown st.	Public.	40	524	....
Cross	Medford st.	Broadway	Public.	45	2,650	....
Cross	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl. . . .	Cross st.	Northwesterly . .	Private.	24	....	150
Crown	Porter st.	Lowell st.	Private.	30	....	700
Curtis ave.	Curtis st.	Northwesterly . .	Private.	40	....	700
Curtis	Broadway	Medford line . . .	Public.	40	2,300	....
Cutler	Lawrence st.	Northwesterly . .	Private.	20	....	170
Cutter	Broadway	Webster st.	Public.	40	740	....
Cutter ave.	Summer st.	Highland ave. . . .	Public.	40	430	....
Cypress	Central st.	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	690	....
Dane	Somerville ave. . . .	Washington st. . .	Public.	40	1,270	....
Dane ave.	Dane st.	Easterly	Private.	30	....	600
Dartmouth	Medford st.	Broadway	Public.	40	1,450	....
Day	Elm st.	Cambridge line . .	Public.	40	949	....
Delaware	Aldrich st.	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st.	Grant st.	Public.	40	831	....
Derby	Grant st.	Wheatland st. . .	Private.	40	....	200
Dexter	Broadway	Medford line . . .	Private.	50	....	25
Dickinson	Springfield st. . . .	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave. . .	Private.	40	....	271
Dimick	Concord ave.	Calvin st.	Private.	40	....	860
Distillhouse	South st.	Cambridge line . .	Private.	35	....	150
Dix pl.	Linwood st.	Southwesterly . .	Private.	10	....	100
Dover	Elm st.	Cambridge line . .	Public.	40	940	....
Dow	North st.	Easterly	Private.	40	....	645
Downer pl.	Downer st.	B. & L. R. R. . . .	Private.	20	....	125
Downer	Nashua st.	Southeasterly . . .	Private.	20	....	120
Dresden circle . . .	Cutter ave.	Westerly	Private.	30	....	133
Durham	Beacon st.	Hanson st.	Private.	40	....	450
Earle	South st.	Fitchburg R. R. . .	Private.	30	....	322
East Albion	Mt. Vernon ave. . . .	E. of Moreland st.	Private.	25	....	188
East Albion	E of Moreland st	Medford line . . .	Private.	40	....	490
Eastman pl.	Highland ave. . . .	Southwesterly . .	Private.	40	....	300
*Edgeworth	Mystic ave.	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	Southwesterly . .	Private.	40	....	525
Edmonton ave. . . .	Cross st.	Winthrop ave. . . .	Private.	40	....	630
Electric ave.	Curtis st.	Packard ave. . . .	Public.	40	681	....
Eliot	Vine st.	Park st.	Public.	40	260	....
Ellington road . . .	Highland ave. . . .	Northeasterly . . .	Private.	35	....	120
Ellington road . . .	West st.	Northwesterly . .	Private.	30	....	405

*Proposed.

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Ellsworth . . .	Cross st. . . .	Rush st.	Public.	40	210	....
Elm ct.	Villa ave. . . .	Northwesterly .	Private.	18	....	70
Elm pl.	Harvard st. . .	Easterly & west'ly	Private.	30	....	400
Elm	Somerville ave. .	Cherry st. . . .	Public.	63	1,500	....
Elm	Cherry st. . . .	White st. . . .	Public.	63 to 60	330	....
Elm	White st. . . .	Banks st. . . .	Public.	60	660	....
Elm	Banks st. . . .	Beech st. . . .	Public.	60 to 77.5	290	....
Elm	Beech st. . . .	Tenney st. . . .	Public.	77.5 to 60	570	....
Elm	Tenney st. . . .	Medford line . .	Public.	60	4,300	....
Elmwood	Holland st. . . .	Cambridge line .	Private.	40	....	970
Elmwood ter. . .	Elmwood st. . .	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st. . . .	Public.	40	396	....
Emerson	Everett st. . . .	Newton st. . . .	Private.	30	....	170
Emery	Fitchburg R. R. .	South st.	Private.	30	....	335
Endicott ave. . .	Broadway	Southwesterly .	Private.	40	....	800
Essex	Medford st. . .	Richdale ave. . .	Public.	40	232	....
Eustis	Beacon st. . . .	Southwest	Private.	30	....	150
Everett	Webster ave. . .	Newton st. . . .	Private.	30	....	350
Everett ave. . .	Cross st. . . .	Dana st.	Public.	40	800	....
Evergreen ave. .	Marshall st. . .	Sycamore st. . . .	Public.	40	1,320	....
Evergreen sq. . .	Porter st. . . .	Southeasterly . .	Private.	8	....	200
Fairlee	Cherry st. . . .	Northwesterly . .	Private.	30	....	150
Fairmount ave. .	Curtis st. . . .	Northwesterly . .	Private.	40	....	700
Fairview ter. . .	Sycamore st. . . .	Southwesterly . .	Private.	15	....	173
Fanning ave. . .	Highland ave. . .	Lexington ave. . .	Public.	50	376	....
Farragut ave. . .	Broadway	Southwesterly . .	Private.	40	....	840
Fenwick	Broadway	Heath st.	Public.	40	340	....
Fisk ave.	Hinckley st. . .	Lowell st. . . .	Private.	20 & 25	....	460
Fitchburg ct. . .	Fitchburg st. . .	Southeasterly . .	Private.	10	....	225
Fitchburg	Linwood st. . . .	B. & L. R. R. . .	Private.	40	....	400
Flint ave.	Flint st.	Northerly	Private.	40	....	200
Flint	Franklin st. . . .	Aldrich st. . . .	Public.	40	1,773	....
Florence	Washington st. .	Perkins st. . . .	Public.	40	1,280	....
Florence ter. . .	Jaques st. . . .	Southwesterly . .	Private.	20	....	90
Forest	Beacon st. . . .	Cambridge line .	Public.	40	150	....
Forster	Sycamore st. . . .	Central st. . . .	Private.	30	....	430
Fosket	Willow ave. . . .	Liberty ave. . . .	Private.	40	....	670
Fountain ave. . .	Cross st. . . .	Glen st.	Private.	30	....	550
Francesca ave. .	Elm st.	Liberty ave. . . .	Public.	40	762	....
Francis	Porter st. . . .	Conwell st. . . .	Private.	30	....	180
Franklin ave. . .	Washington st. .	Franklin st. . . .	Private.	20	....	500
Franklin ct. . .	Somerville ave. .	B. & L. R. R. . .	Private.	....	....	200
Franklin pl. . . .	Franklin st. . . .	Southeasterly . .	Private.	15	....	100
Franklin	Broadway	Washington st. .	Public.	40+	2,230	....
*Frederick ave. .	Willow ave. . . .	Cedar st.	Private.	45	....	1,360
Fremont ave. . .	Parker st. . . .	Easterly & west'ly	Private.	30	....	235
Fremont	Main st.	Near Mystic ave. .	Private.	40	....	1,397
Frost ave.	Somerville ave. .	Dane st.	Private.	35	....	550
Garden ct. . . .	Somerville ave. .	Fitchburg R. R. .	Private.	25	....	370
Garfield ave. . .	Broadway	Middlesex ave. . .	Private.	40	....	1,430
Garrison ave. . .	Broadway	Southwesterly . .	Private.	40	....	850
George	Broadway	Lincoln ave. . . .	Public.	30	275	....
Gibbens	Central st. . . .	Benton road . . .	Public.	40	492	....
Giles pl.	Walnut st. . . .	Northwesterly . .	Private.	32.71	....	168
Gill's ct.	Franklin st. . . .	Westerly	Private.	10	....	100
Gilman	Cross st. . . .	Walnut st. . . .	Public.	40	1,430	....
Gilman ter. . . .	Pearl st.	Northeasterly . .	Private.	40	....	360
Gilson ter. . . .	Linden ave. . . .	Northwesterly . .	Private.	20	....	124
Glass House ct. .	Webster ave. . .	Easterly	Private.	40	....	200
Glen	Broadway	Tufts st.	Public.	40	2,300	....
Glendale ave. . .	Cameron ave. . .	Yorktown st. . . .	Private.	40	....	410
Glover circle . .	Meacham st. . . .	Southeasterly . .	Private.	20	....	110
Gordonia road . .	Summer st. . . .	Highland ave. . .	Private.	40	....	521
Gorham	Holland st. . . .	Howard st. . . .	Public.	40	763	....

*Proposed.

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Gould ave. . . .	Porter st. . . .	Southeasterly	Private.	16	....	156
Grand View ave.	Walnut st. . . .	Vinal ave. . . .	Public.	40	470	....
Granite	Somerville ave.	Osgood st. . . .	Private.	40	....	400
Grant	Broadway	Jaques st. . . .	Public.	40	536	....
Grant	Jaques st. . . .	Mystic ave. . . .	Private.	40	....	814
Greene	Summer st. . . .	Laurel st. . . .	Public.	40	555	....
Greenville	Medford st. . . .	High st. . . .	Public.	40	660	....
Greenwood ter.	Beacon st. . . .	Northeasterly	Private.	25	....	165
Grove	Elm st. . . .	Morrison st. . . .	Public.	40	985	....
Hadley ct. . . .	Franklin st. . . .	Westerly	Private.	20	....	150
Hall ave. . . .	Elm st. . . .	Liberty ave. . . .	Public.	40	926	....
Hall	Cedar st. . . .	Cherry st. . . .	Private.	30	....	350
Hamlet	Highland ave. . . .	Southwesterly	Private.	30	....	400
Hammond	Dickinson st.	Concord ave. . . .	Private.	40	....	273
Hancock	Elm st. . . .	Summer st. . . .	Public.	40	781	....
Hanson ave. . . .	Hanson st. . . .	Easterly	Private.	30	....	252
Hanson	Washington st.	Vine st. . . .	Private.	35	....	750
Harding	South st. . . .	Cambridge line	Private.	30	....	115
Harris	Beacon st. . . .	Cambridge line	Private.	35	....	150
Harrison	Ivaloo st. . . .	Kent st. . . .	Public.	40	644	....
Harrison	Elmwood st.	Southeasterly	Private.	40	....	210
Harvard pl. . . .	Harvard st. . . .	Westerly	Private.	35	....	200
Harvard	Summer st. . . .	Beech st. . . .	Public.	40	650	....
Hathorn	Broadway	Arlington st.	Public.	40	330	....
Hawkins	Somerville ave.	Washington st.	Public.	40	330	....
Hawthorne	Willow ave. . . .	Cutter ave. . . .	Private.	30	....	810
Hayden ter. . . .	Linden ave. . . .	Easterly	Private.	20	....	120
Heath	Temple st. . . .	Bond st. . . .	Public.	45	1,043	....
Heath	Bond st. . . .	Moreland st.	Private.	45	....	750
Henderson	Richardson st.	B. & L. R. R. . . .	Private.	20	....	535
Hennessey ct. . . .	Medford st. . . .	Fisk ave. . . .	Private.	20	....	250
Henry ave. . . .	Highland ave.	Lexington ave.	Private.	40	....	290
Herbert	Chester st. . . .	Day st. . . .	Public.	40	360	....
Hersey	Berkeley st. . . .	Oxford st. . . .	Private.	40	....	230
Highland ave. . . .	Medford st. . . .	Davis sq. . . .	Public.	60	9,100	....
Hill	Broadway	Fairmount ave.	Private.	40	....	286
Hillside ave. . . .	Pearl st. . . .	Southwesterly	Private.	30	....	150
Hillside pk. . . .	Walnut st. . . .	Northwesterly	Private.	40	....	245
Hinckley	Broadway	Lawrence st.	Private.	30	....	430
Hodgdon pl. . . .	Dane ct. . . .	Northeasterly	Private.	about 20	....	150
Holland	Davis sq. . . .	Broadway	Public.	60	2,650	....
Holt's ave. . . .	Oak st. . . .	Southeasterly	Private.	10	....	100
Homer sq. . . .	Bonner ave. . . .	Northwesterly	Private.	30+	....	200
Horace	South st. . . .	Fitchburg R. R. . . .	Private.	30	....	510
Houghton	Springfield st.	Cambridge line	Public.	40	653	....
Howard	Thorndike st.	Gorham st. . . .	Private.	40	....	430
Howard	Whipple st. . . .	Willow ave. . . .	Private.	30	....	255
Howe	Marshall st. . . .	School st. . . .	Public.	40	445	....
Hudson	Central st. . . .	Cedar st. . . .	Public.	40	2,760	....
Hunting	South st. . . .	Cambridge line	Private.	30	....	125
Ibbetson	Somerville ave.	Lowell st. . . .	Public.	40	802	....
Irving	Holland st. . . .	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st. . . .	Park st. . . .	Public.	40	650	....
Jackson	Medford st. . . .	Maple st. . . .	Private.	30	....	150
James	Pearl st. . . .	Veazie st. . . .	Public.	40	320	....
Jaques	Chauncey ave.	Temple st. . . .	Public.	40	1,200	....
Jaques	Temple st. . . .	Bond st. . . .	Public.	45	1,050	....
Jasper pl. . . .	Jasper st. . . .	Walnut st. . . .	Private.	20	....	225
Jasper	Pearl st. . . .	Gilman st. . . .	Private.	40	....	300
Jay	Holland st. . . .	Howard st. . . .	Public.	40	534	....
Jenny Lind ave.	Vernon st. . . .	Broadway	Public.	40	1,507	....
Jerome ct. . . .	Sycamore st.	Jerome st. . . .	Private.	10	....	150
Jerome	Montrose st.	Jerome ct. . . .	Private.	20	....	125
Joseph	Newton st. . . .	Lincoln parkway	Public.	40	458	....

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Josephine ave. . .	Morrison ave. . .	Broadway . . .	Private.	45	....	1,715
Joy	Washington st. . .	Poplar st. . .	Public.	30	1,121	....
Joy St. pl. . . .	Joy st.	Southwesterly . .	Private.	30	....	175
Kensington ave. . .	Broadway	Blakeley ave. . .	Private.	40	....	440
Kent ct.	Kent st.	Northerly	Private.	about 25	....	420
Kent	Somerville ave. . .	Fitchburg R. R. . .	Public.	40	292	....
Kent	Fitchburg R. R. . .	Beacon st.	Public.	25	386	....
Kenwood	Elm st.	Billingham st. . .	Public.	40	322	....
Kidder ave. . . .	Elm st.	Liberty ave. . . .	Public.	40	625	....
Kidder ave. . . .	Liberty ave. . . .	Willow ave. . . .	Private.	40	....	655
Kilby	Somerville ave. . .	Southwesterly . .	Private.	20	....	180
Kimball	Lowell st.	Craigie st.	Private.	40	....	303
Kingman ct. . . .	Washington st. . .	Fitchburg R. R. . .	Private.	25	....	400
Kingston	Meacham st. . . .	Cambridge line . .	Public.	40	647	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Olive st.	Tufts st.	Private.	40	....	925
Lake	Hawkins st. . . .	Church st.	Public.	40	860	....
Lamson ct.	Linwood st. . . .	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Private.	40	....	280
Laurel ave. . . .	Laurel st.	Northwesterly . .	Private.	18	....	125
Laurel	Somerville ave. . .	Summer st.	Public.	40	940	....
Lawrence	Hinckley st. . . .	B. & L. R. R. . . .	Private.	35	....	650
Lawrence	Boston ave. . . .	Southwesterly . .	Private.	35	....	710
Lawson ter. . . .	Putnam st.	Easterly	Private.	5	....	200
Lee	Medford st. . . .	Richdale ave. . .	Public.	40	385	....
Leland	Washington st. . .	Northeasterly . .	Private.	40	....	250
Leon	Concord ave. . . .	Dickinson st. . .	Public.	40	155	....
Leonard pl. . . .	Joy st.	Northeasterly . .	Private.	13+	....	98
Lesley ave. . . .	Highland ave. . .	Lexington ave. . .	Public.	40	333	....
Leslie pl.	Highland ave. . .	Northerly	Private.	12	....	75
Lester ter. . . .	Meacham st. . . .	Northwesterly . .	Private.	20	....	190
Lexington ave. . .	Willow ave. . . .	Cedar st.	Private.	50	....	1,360
Liberty ave. . . .	Hall ave.	Broadway	Public.	40	1,395	....
Liberty ave. . . .	Hall ave.	Appleton st. . . .	Private.	40	....	100
Lincoln ave. . . .	Lincoln st.	Mt. Vernon st. . .	Public.	40	478	....
Lincoln parkway .	Washington st. . .	Wyatt st.	Public.	40	1,520	....
Lincoln pl. . . .	Lincoln ave. . . .	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave. . . .	Elm st.	Summer st.	Public.	45	1,050	....
Linden ave. . . .	Summer st.	Northeasterly . .	Private.	45	....	250
Linden circle . .	Linden ave. . . .	Southeasterly . .	Private.	24	....	120
Linden pl.	Linden ave. . . .	Northwesterly . .	Private.	20	....	160
Linden	Somerville ave. . .	Fitchburg R. R. . .	Private.	30	....	705
Line	Washington st. . .	Cambridge line . .	Private.	33	....	1,750
Linehan ct. . . .	Linwood st. . . .	Chestnut st. . . .	Private.	about 15	....	200
Linwood pl. . . .	Linwood st. . . .	Southwesterly . .	Private.	about 12	....	150
Linwood	Somerville ave. . .	Washington st. . .	Public.	50	2,050	....
London	Linwood st. . . .	B. & L. R. R. . . .	Private.	40	....	340
Loring	Somerville ave. . .	Northeasterly . .	Private.	40	....	400
Louisburg pl. . .	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave. . . .	Private.	40	....	385
Lowden ave. . . .	Broadway	Fosket st.	Private.	40	....	1,205
Lowell	Somerville ave. . .	Crown st.	Private.	33+	....	1,608
Lowell	Crown st.	Albion st.	Public.	40	972	....
Lowell	Albion st.	L. & A. Br'ch R. R.	Private.	40	....	540
Lowell	B. & L. R. R. . .	Vernon st.	Private.	33+	....	60
Lowell	Vernon st.	Medford st. . . .	Public.	40	1,141	....
Lowell ter. . . .	Lowell st.	Northwesterly . .	Private.	20	....	150
Madison	School st.	Sycamore st. . . .	Public.	40	891	....
Main	Broadway	Medford line . . .	Public.	50	950	....
*Malden	Mystic ave. . . .	Melrose st. . . .	Private.	50	....	1,360
Mallet	Willow ave. . . .	Liberty ave. . . .	Private.	40	....	580

* Proposed.

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Malloy ct. . . .	Somerville ave.	Merriam st. . . .	Private.	30	....	255
Malvern ave. . . .	Cameron ave. . . .	Yorktown st. . . .	Private.	40	....	410
Manila road	Beacon st. . . .	Sacramento st. . . .	Private.	40	....	408
Mansfie'd	Somerville ave.	Washington st. . . .	Private.	40	....	730
Maple ave. . . .	School st. . . .	Southeasterly	Private.	40	....	300
Maple pl. . . .	Marshall st. . . .	Maple ave. . . .	Private.	5	....	125
Maple	Poplar st. . . .	Jackson st. . . .	Private.	30	....	470
Marion	Concord ave. . . .	So. Wyatt st. . . .	Public.	40	529	....
Marion	So. Wyatt st. . . .	Northwesterly	Private.	40	....	182
Marshall	Broadway	Pearl st. . . .	Public.	40	1,650	....
May pl. . . .	Hawkins st. . . .	Easterly	Private.	12	....	160
McCulphie pl. . . .	Medford st. . . .	Easterly	Private.	10	....	110
McGregor ave. . . .	Wigglesworth st. . . .	Walnut st. . . .	Private.	about 10	....	250
Meacham	Arlington B.R.R.	Cambridge line	Public.	40	658	....
Meacham	Mt. Vernon ave.	Medford line	Private.	40	....	800
Mead	Cameron ave. . . .	Moore st. . . .	Private.	40	....	340
Medford	Cambridge line	Central	Public.	50	8,150	....
Medford	Central st. . . .	Broadway	Public.	55	1,950	....
Melburn pl. . . .	Summer st. . . .	Northeasterly	Private.	30	....	125
Melledew ct. . . .	Belmont st. . . .	Easterly	Private.	15	....	137
Melrose	Mystic ave. . . .	Middlesex ave. . . .	Private.	50	....	2,310
Melvin	Broadway	Bonair st. . . .	Public.	40	487	....
Merriam ave. . . .	Merriam st. . . .	Malloy ct. . . .	Private.	15	....	255
Merriam	Somerville ave.	Charlestown st. . . .	Private.	30	....	500
Middlesex ave. . . .	Mystic ave. . . .	Medford line	Public.	60	3,400	....
Milk pl. . . .	Somerville ave.	Southwesterly	Private.	about 30	....	100
Miller	Sacramento st. . . .	Northwesterly	Private.	33	....	350
Milton	Orchard st. . . .	Cambridge line	Private.	35	....	220
Miner	Vernon st. . . .	Ames st. . . .	Public.	40	244	....
Mondamin ct. . . .	Ivaloo st. . . .	Harrison st. . . .	Private.	25	....	250
Monmouth	Central st. . . .	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st. . . .	Private.	35	....	200
Montgomery ave. . . .	Broadway	Wellington ave. . . .	Public.	40	265	....
Montrose ct. . . .	Montrose st. . . .	B. & L. R. R. . . .	Private.	12	....	110
Montrose	Sch'ol st. . . .	Sycamore st. . . .	Public.	40	886	....
Moore	Holland st. . . .	Mead st. . . .	Public.	40	695	....
Moreland	Main st. . . .	Mystic ave. . . .	Private.	40	....	1,513
Morgan	Beacon st. . . .	Park st. . . .	Public.	40	350	....
Morrison ave. . . .	Willow ave. . . .	Cedar st. . . .	Private.	50	....	1,366
Morrison pl. . . .	Morrison st. . . .	Northerly	Private.	20	....	190
Morrison pl. . . .	Morrison pl. . . .	Easterly	Private.	15	....	175
Morrison	Willow ave. . . .	Elm st. . . .	Public.	40	1,700	....
Mortimer pl. . . .	Marshall st. . . .	Walter st. . . .	Private.	20	....	280
Morton	Glen st. . . .	Knowlton st. . . .	Public.	40	287	....
Mossland	Somerville ave. . . .	Elm st. . . .	Public.	40	350	....
Mountain ave. . . .	Linden ave. . . .	Porter st. . . .	Private.	22	....	310
Mousal pl. . . .	North Union st. . . .	B. & M. R. R. . . .	Private.	20	....	200
Mt. Pleasant ct. . . .	Perkins st. . . .	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st. . . .	Public.	33	570	....
Mt. Vernon ave. . . .	Main st. . . .	Meacham st. . . .	Private.	50	....	800
Mt. Vernon	Washington st. . . .	Pearl st. . . .	Public.	40	600	....
Mt. Vernon	Pearl st. . . .	Perkins st. . . .	Public.	50	450	....
Mt. Vernon	Perkins st. . . .	Broadway	Public.	40	600	....
Munroe	Walnut st. . . .	Easterly	Public.	40	375	....
Munroe	End of above	Boston st. . . .	Private.	50	....	1,100
Murdock	Cedar st. . . .	Clyde st. . . .	Private.	30	....	900
Murray	Washington st. . . .	Southerly	Private.	30	....	250
Museum	Beacon st. . . .	Cambridge line	Private.	40	....	170
Myrtle ct. . . .	Myrtle st. . . .	Easterly	Private.	10	....	100
Myrtle	Washington st. . . .	Perkins st. . . .	Public.	40	1,400	....
Mystic ave. . . .	Charlestown line	Union st. . . .	Public.	60	350	....
Mystic ave. . . .	Union st. . . .	Medford line	Public.	66	6,900	....
Mystic	Washington st. . . .	Somerville ave. . . .	Public.	40	360	....
Mystic	Benedict st. . . .	Mystic ave. . . .	Private.	40	....	330
Nashua	Richardson st. . . .	B. & L. R. R. . . .	Private.	35	....	640
Nevada ave. . . .	Village st. . . .	Hanson st. . . .	Private.	20	....	200

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Newberne . . .	Appleton st. . .	Morrison st. . .	Public.	40	200	....
Newbury . . .	Holland st. . .	Cambridge line . .	Public.	40	1,250	....
Newman pl. . .	Cedar st. . .	Southeasterly . .	Private.	10+	....	100
Newton pl. . .	Newton st. . .	Easterly . . .	Private.	about 10	....	100
Newton . . .	Prospect st. . .	Webster ave. . .	Public.	25	470	....
Newton . . .	Webster ave. . .	Concord ave. . .	Public.	40+	650	....
Norfolk . . .	Webster ave. . .	Cambridge line . .	Public.	40	200	....
North . . .	Broadway . . .	Medford line . .	Public.	40	2,550	....
North Union . .	Mystic ave. . .	Northeasterly . .	Private.	30	....	600
Norton . . .	Nashua st. . .	Southeasterly . .	Private.	20	....	200
Norwood ave. .	Broadway . . .	Medford st. . .	Public.	40	350	....
Oak . . .	Prospect st. . .	Angle . . .	Public.	40	670	....
Oak . . .	Angle . . .	Cambridge line . .	Public.	30	563	....
Oak St. pl. . .	Oak st. . .	Northerly . . .	Private.	4	....	85
Oakland ave. .	Marshall st. . .	School st. . .	Public.	40	440	....
Olive ave. . .	Linden ave. . .	Southeasterly . .	Private.	25	....	155
Olive sq. . .	Lake st. . .	Southerly . . .	Private.	about 15	....	100
Oliver . . .	Franklin st. . .	Cross st. . .	Public.	40	1,050	....
Orchard . . .	Cambridge line .	Meacham st. . .	Public.	40	1,625	....
Osgood . . .	Granite st. . .	Easterly & west'y	Private.	40	....	450
Otis . . .	Cross st. . .	Wigglesworth st. .	Public.	40	1,200	....
Oxford . . .	School st. . .	Central st. . .	Public.	35	1,361	....
Oxford . . .	Beacon st. . .	Cambridge line . .	Public.	50	100	....
Packard ave. . .	Broadway . . .	Medford line . .	Private.	60	....	2,000
Palmer ave. . .	Franklin st. . .	Northwesterly . .	Private.	20	....	200
Park ave. . .	Elm st. . .	Wallace st. . .	Public.	40	450	....
Park pl. . .	Laurel st. . .	Easterly . . .	Private.	30	....	220
Park pl. . .	Park pl. . .	Northeasterly . .	Private.	20	....	150
Park . . .	Somerville ave.	Beacon st. . .	Public.	50	1,300	....
Parker pl. . .	Porter st. . .	Northwesterly . .	Private.	20	....	150
Parker . . .	Washington st. .	Fremont ave. . .	Private.	35	....	200
Partridge ave. .	Vernon st. . .	Broadway . . .	Public.	40	1,457	....
Patten ct. . .	Cutter st. . .	Southeasterly . .	Private.	8	....	100
Paulina . . .	Broadway . . .	Holland st. . .	Private.	40	....	775
Pearl . . .	Crescent st. . .	Mt. Vernon st. .	Public.	40	300	....
Pearl . . .	Mt. Vernon st. .	Franklin st. . .	Public.	50	950	....
Pearl . . .	Franklin st. . .	Cross st. . .	Public.	40	1,025	....
Pearl . . .	Cross st. . .	Medford st. . .	Public.	50	2,475	....
Pearl St. pl. . .	Pearl st. . .	Northeasterly . .	Private.	20	....	200
Pearl ter. . .	Pearl st. . .	Northerly . . .	Private.	23	....	161
Pearson ave. . .	Morrison ave. .	Boston ave. . .	Private.	45	....	1,300
Pearson road . .	Broadway . . .	Professors' row .	Private.	40	....	1,654
Pembroke ct. . .	Pembroke st. . .	Southwesterly . .	Private.	25	....	130
Pembroke . . .	Central st. . .	Sycamore st. . .	Private.	40	....	440
Perkins pl. . .	Perkins st. . .	Northeasterly . .	Private.	20	....	200
Perkins . . .	Franklin st. . .	Charlestown line .	Public.	40	1,350	....
Peterson ter. . .	Porter . . .	Northwesterly . .	Private.	13+	....	155
Pinckney pl. . .	Pinckney st. . .	Southeasterly . .	Private.	24	....	125
Pinckney . . .	Washington st. .	Perkins st. . .	Public.	40	1,170	....
Pitman . . .	Beech st. . .	Spring st. . .	Private.	30	....	380
Pitman . . .	Spring st. . .	Belmont st. . .	Private.	26	....	390
Pleasant ave. .	Walnut st. . .	Vinal ave. . .	Public.	40	470	....
Poplar ct. . .	Poplar st. . .	Southeasterly . .	Private.	10	....	80
Poplar . . .	Somerville ave.	Linwood st. . .	Private.	30	....	350
Poplar . . .	Linwood st. . .	Joy st. . .	Private.	35	....	300
Porter ave. . .	Porter st. . .	Northwesterly . .	Private.	20	....	220
Porter pl. . .	Porter st. . .	Northwesterly . .	Private.	20	....	195
Porter . . .	Elm st. . .	Mountain ave. . .	Public.	45	1,530	....
Porter . . .	Mountain ave. .	Highland ave. . .	Public.	40	425	....
Powder house boulevard . . .	Powder house square . . .	Northwesterly, Mystic river and Medford line . .	Public.	80	7,200	....
Prescott . . .	Summer st. . .	Highland ave. . .	Public.	50	1,050	....
Preston . . .	School st. . .	Summer st. . .	Public.	40	800	....
Prichard ave. .	Morrison ave. .	Boston ave. . .	Private.	40	....	1,145

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Princeton . . .	Alpine st. . .	Lowell st. . .	Public.	40	657	....
Princeton . . .	Lowell st. . .	Centre st. . .	Private.	40	....	540
Professors' row . .	Boston ave. . .	College ave. . .	Private.	50	....	460
Professors' row . .	College ave. . .	Curtis st. . .	Private.	40	....	1,900
Prospect . . .	Washington st. .	Cambridge line .	Public.	50	2,050	....
Prospect Hill av. .	Medford st. . .	Munroe st. . .	Public.	40	450	....
Prospect pl. . .	Prospect st. . .	E. Newton st. .	Private.	20	....	130
Putnam . . .	Summer st. . .	Highland ave. .	Public.	50	1,240	....
Quincy . . .	Somerville ave. .	Summer st. . .	Public.	40	700	....
Randolph pl. . .	Cross st. . .	Westerly . . .	Private.	15	....	244
Raymond ave. . .	Curtis st. . .	North st. . .	Public.	40	1,345	....
Record's pl. . .	Broadway . . .	Southwesterly . .	Private.	10	....	110
Reed's ct. . .	Oliver st. . .	Southwesterly . .	Private.	20	....	105
Remick ct. . .	Cutter st. . .	Southeasterly . .	Private.	10	....	100
Richardson . . .	Lowell st. . .	Lawrence st. . .	Private.	35	....	480
Richardson ter. .	Richardson st. .	Northeasterly . .	Private.	20	....	135
Richdale ave. . .	School st. . .	Sycamore st. . .	Public.	40	875	....
Richmond hi'h'ds .	Madison st. . .	Southerly . . .	Private.	30	....	150
Roberts . . .	Lawrence st. . .	Northwesterly . .	Private.	20	....	170
Robinson . . .	Central st. . .	Bartlett st. . .	Public.	40	582	....
Rogers ave. . .	Morrison ave. . .	Broadway . . .	Private.	45	....	1,700
Roseland . . .	Beacon st. . .	Cambridge line .	Public.	40	100	....
Rossmore . . .	Somerville ave. .	Washington st. .	Public.	40	534	....
Royce pl. . .	Bonair st. . .	Northeasterly . .	Private.	15+	....	175
Rush . . .	Broadway . . .	Flint st. . .	Public.	40	1,400	....
Russell road . . .	Broadway . . .	North st. . .	Private.	40	....	1,193
Russell . . .	Elm st. . .	Cambridge line .	Public.	40	700	....
Sacramento . . .	Somerville ave. .	Fitchburg R. R. .	Public.	40	80	....
Sacramento . . .	Fitchburg R. R. .	Beacon st. . .	Public.	40	290	....
Sacramento . . .	Beacon st. . .	Cambridge line .	Private.	40	....	156
Sanborn ave. . .	Warren ave. . .	Walnut st. . .	Public.	40	280	....
Sargent ave. . .	Broadway . . .	Walnut st. . .	Public.	40	1,082	....
Sartwell ave. . .	Cedar st. . .	Cherry st. . .	Private.	35	....	400
Sawyer ave. . .	Packard ave. . .	Curtis st. . .	Private.	40	....	690
School . . .	Somerville ave. .	Highland ave. .	Public.	40	1,870	....
School . . .	Highland ave. .	Broadway . . .	Public.	50	2,500	....
Sellon pl. . .	Marshall st. . .	Northwesterly . .	Private.	12	....	120
Seven Pines ave . .	Cameron ave. . .	Cambridge line .	Private.	40	....	80
Sewall ct. . .	Sewall st. . .	Southwesterly . .	Private.	25	....	190
Sewall . . .	Grant st. . .	Temple st. . .	Public.	40	615	....
Shawmut pl. . .	Shawmut st. . .	Alston st. . .	Private.	30	....	200
Shawmut . . .	Washington st. .	Cross st. . .	Public.	40	550	....
Shedd . . .	Somerville ave. .	Merriam ave. . .	Private.	40	....	310
Sherman pl. . .	Sargent ave. . .	Marshall st. . .	Private.	10	....	250
Sherman . . .	Somerville ave. .	Frost ave. . .	Private.	35	....	270
Sibley ct. . .	Cutter st. . .	Northwesterly . .	Private.	10	....	100
Sibley pl. . .	Cutter st. . .	Northwesterly . .	Private.	10	....	100
Simpson ave. . .	Broadway . . .	Holland st. . .	Private.	40	....	825
Skehan . . .	Dane st. . .	Durham st. . .	Private.	30	....	720
Smith ave. . .	Beacon st. . .	Line st. . .	Private.	25+	....	200
Snow pl. . .	Belmont st. . .	Easterly . . .	Private.	30	....	75
Snow pl. . .	Snow pl. . .	N'th'ly and S'th'y.	Private.	20	....	222
Snow ter. . .	Jaques st. . .	Southwesterly . .	Private.	16	....	120
Somerville ave. . .	E. Camb. line . .	Union sq. . .	Public.	75	4,300	....
Somerville ave. . .	Union sq. . .	N. Camb. line . .	Public.	70	6,800	....
South . . .	Medford st. . .	Westerly . . .	Private.	30	....	940
Southwick ave. . .	Morrison ave. . .	Boston ave. . .	Private.	40	....	990
Spencer ave. . .	Cedar st. . .	Fanning ave. . .	Private.	40	....	727
Spring ct. . .	Somerville ave. .	Westerly . . .	Private.	20	....	200
Spring . . .	Somerville ave. .	Summer st. . .	Public.	40	1,200	....
Springfield . . .	Concord ave. . .	Cambridge line .	Public.	40	800	....
Spring Hill ter. . .	Highland ave. . .	Belmont st. . .	Private.	20	....	670
Stanford ter. . .	Beacon st. . .	Northeasterly . .	Private.	20	....	200
Stickney ave. . .	Marshall st. . .	School st. . .	Public.	40	458	....
St. James ave. . .	Elm st. . .	Summer st. . .	Public.	40	488	....

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	TO	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Stone ave. . . .	Union sq. . . .	Columbus ave. . .	Public.	40	676	....
Stone pl. . . .	Stone ave. . . .	Southeasterly . .	Private.	30	....	145
Summer	Bow st. . . .	Elm st. . . .	Public.	45	7,700	....
Summit ave. . .	Walnut st. . . .	Vinal ave. . . .	Public.	45	470	....
Summit	Elm st. . . .	Billingham st. . .	Public.	40	262	....
Sumner	Lawrence st. . .	Northwesterly . .	Private.	20	....	175
Sunnyside ave. .	Walnut st. . . .	Wigglesworth st. .	Private.	35	....	250
Sycamore	Broadway	Medford st. . . .	Public.	45	1,250	....
Sycamore	Medford st. . . .	Richdale ave. . .	Private.	40	....	550
Sycamore	Richdale ave. . .	Highland ave. . .	Private.	33	....	800
Sydney	Wheatland st. . .	Temple st. . . .	Private.	40	....	925
Talbot ave. . . .	Packard ave. . . .	College ave. . . .	Private.	50	....	1,409
Taunton. . . .	So. Wyatt st . .	Easterly to angle .	Private.	30	....	170
Taunton	Angle	Marion st. . . .	Private.	20	....	95
Taylor pl. . . .	Somerville ave. .	Southerly	Private.	15	....	209
Taylor	Mystic ave. . . .	Sydney st. . . .	Private.	40	....	310
Temple	Broadway	Mystic ave. . . .	Public.	66	1,540	....
Tenney ct. . . .	Mystic ave. . . .	Northeasterly . .	Private.	30	....	400
Tennyson	Forster st. . . .	Pembroke st. . . .	Public.	40	869	....
Thorndike	Holland st. . . .	Arl'ngt'n Br. R. R.	Public.	40	465	....
Thorndike	Arl'gt'n Br. R. R.	Kingston st. . . .	Private.	40	....	115
Thorpe pl. . . .	Highland ave. . .	Southwesterly . .	Private.	30	....	450
Thurston	Broadway	Richdale ave. . .	Public.	40	1,660	....
Tower ct. . . .	Tyler st. . . .	Northeasterly . .	Private.	25	....	150
Tower	Crown st. . . .	Highland ave. . .	Public.	40	559	....
Tremont pl. . . .	Tremont st. . . .	Southeasterly . .	Private.	about 10	....	75
Tremont	Webster ave. . . .	Cambridge line . .	Public.	40	589	....
Trull	Vernon st. . . .	Medford st. . . .	Public.	40	1,050	....
Trull lane	Highland ave. . .	Oxford st. . . .	Private.	15	....	200
Tube Works ct. .	Somerville ave. .	Southwesterly . .	Private.	20	....	150
Tufts	Washington st. . .	Cross st. . . .	Public.	40	940	....
Tyler	Vine st. . . .	Dane st. . . .	Public.	40	404	....
Unnamed st. . . .	P'wd'r h'se blvd.	Southwesterly . .	Private.	40	....	183
Unnamed st. . . .	Mystic ave. . . .	Middlesex ave. . .	Private.	40	....	433
Unnamed st. . . .	Mystic ave. . . .	Middlesex ave. . .	Private.	40	....	583
Unnamed st. . . .	Mystic ave. . . .	Middlesex ave. . .	Private.	40	....	706
Union	Broadway	Mystic ave. . . .	Public.	40	330	....
Union pl. . . .	Linwood st. . . .	Southwesterly . .	Private.	10	....	100
Veazie	Walnut st. . . .	Bradley st. . . .	Private.	40	....	650
Vernon	Central st. . . .	Jenny Lind ave. . .	Public.	40	740	....
Vernon	Jenny Lind ave. .	Lowell st. . . .	Private.	30	....	600
Victoria	Broadway	Cambridge line . .	Private.	40	....	1,036
Villa ave. . . .	Winslow ave. . .	Arlington B. R. R.	Private.	35	....	200
Village	Dane st. . . .	Vine st. . . .	Private.	25	....	370
Vinal ave. . . .	Summer st. . . .	Highland ave. . .	Public.	45	1,400	....
Vinal	Richardson st. . .	Northeasterly . .	Private.	20	....	200
Vine ct. . . .	Vine st. . . .	Northwesterly . .	Private.	25	....	140
Vine	Somerville ave. .	Hanson st. . . .	Private.	40	....	780
Vine	Hanson st. . . .	Beacon st. . . .	Private.	25	....	650
Virginia	Aldrich st. . . .	Jasper st. . . .	Public.	40	405	....
Wade ct. . . .	Cedar st. . . .	Westerly	Private.	20	....	180
Waldo ave. . . .	Beacon st. . . .	Dimick st. . . .	Private.	40	....	277
Waldo	Highland ave. . .	Hudson st. . . .	Public.	40	287	....
Wallace	Holland st. . . .	Broadway	Public.	40	1,350	....
Walnut	Bow st. . . .	Broadway	Public.	40	3,830	....
Walter pl. . . .	Walter st. . . .	Southwesterly . .	Private.	40	....	222
Walter	Walnut st. . . .	{ about 100 ft. N. } { of Bradley st. }	Public.	40	548	....
Ward	Medford st. . . .	Earl st. . . .	Private.	30	....	610
Ware	Curtis st. . . .	Northwesterly . .	Private.	40	....	700
Warren ave. . . .	Union sq. . . .	Columbus ave. . .	Public.	40	650	....
Warren	Medford st. . . .	Cambridge line . .	Private.	30	....	100
Warwick ave. . .	Warwick st. . . .	Northeasterly . .	Private	15	....	150

Table Showing the Location, Length, and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Warwick . . .	Cedar st. . .	Warwick ave. . .	Public.	40	655	....
Washington ave..	Washington st. .	Northerly . . .	Private.	18	....	350
Washington . .	Charlest'n line .	Franklin ave. . .	Public.	75	1,060	....
Washington . .	Franklin ave. . .	Fitchburg R. R. .	Public.	60 to 100	3,870	....
Washington . .	Fitchburg R. R. .	Cambridge line .	Public.	60	2,380	....
Water	South st. . . .	Northerly . . .	Private.	25	....	250
Waterhouse . .	Broadway . . .	Cambridge line .	Private.	40	....	986
Watson	Broadway . . .	Fairmount ave. .	Private.	40	....	236
Waverly	Washington st. .	Southerly . . .	Private.	35	....	200
Webster ave. . .	Union sq. . . .	Cambridge line .	Public.	49.5	1,950	....
Webster	Franklin st. . .	Cross st. . . .	Public.	40	1,000	....
Wellington ave..	Walnut st. . . .	Montgomery ave.	Public.	40	215	....
Wellington ave..	Montgomery ave.	Easterly	Private.	40	....	85
Wesley pk. . . .	Wesley sq. . . .	Northeasterly . .	Public.	40	405	....
Wesley	Pearl st. . . .	Otis st.	Public.	40	515	....
West	Broadway . . .	Heath st. . . .	Private.	30	....	250
West	Hawthorne st. .	Arlington B. R. R.	Private.	30	....	460
Westminster . .	Broadway . . .	Electric ave. . .	Public.	40	376	....
Weston ave. . .	Clarendon ave. .	Broadway	Private.	40	....	525
Westwood road .	Central st. . . .	Benton road . .	Public.	40	489	....
Wheatland . . .	Broadway . . .	Jaques st. . . .	Public.	40	495	....
Wheatland . . .	Jaques st. . . .	Mystic ave. . . .	Private.	40	....	855
Wheeler	Pinckney st. . .	Mt. Vernon st. .	Public.	40	269	....
Whipple	Hawthorne st. .	Arlington B. R. R.	Private.	30	....	575
White	Elm st.	Cambridge line .	Private.	20	....	300
White St. pl. . .	White st. . . .	Southeasterly . .	Private.	20	....	200
Wigglesworth . .	Bonair st. . . .	Pearl st.	Public.	40	740	....
William	Chandler st. . .	Elm st.	Public.	40	381	....
William	Broadway . . .	Medford line . .	Private.	50	....	45
Williams ct. . .	Porter st. . . .	Northwesterly . .	Private.	30	....	150
Willoughby . . .	Central st. . . .	Sycamore st. . .	Private.	30	....	400
Willow ave. . . .	Elm st.	Broadway	Public.	50	3,440	....
Willow pl. . . .	Cambridge line .	South st.	Private.	25	....	150
Wilson ave. . . .	Broadway . . .	B. & L. R. R. . .	Private.	20	....	310
Wilton	Lowell st. . . .	Lawrence st. . .	Private.	35	....	470
Winchester . . .	Broadway . . .	Medford line . .	Private.	40	....	65
Windham road .	Washington st. .	Northeasterly . .	Private.	40	....	335
Windom	Elm st.	Summer st. . . .	Public.	40	300	....
Windsor road . .	Gordonia road .	Willow ave. . . .	Private.	40	....	575
Winslow ave. . .	Elm st.	Clifton st. . . .	Public.	40	1,086	....
Winter	Elm st.	Holland st. . . .	Private.	30	....	430
Winter Hill cir. .	Broadway . . .	Northeasterly . .	Private.	25	....	177
Winthrop ave. .	Broadway . . .	Mystic ave. . . .	Public.	50	1,170	....
Woodbine	Centre st. . . .	Lowell st. . . .	Private.	30	....	600
*Woods ave. . . .	North st.	Alewife Brook . .	Private.	40	....	1,350
Woodstock . . .	Victoria st. . .	Alewife Brook . .	Private.	40	....	415
Wyatt ct.	South Wyatt st.	Westerly	Private.	13	....	200
Wyatt pl.	Wyatt st. . . .	Westerly	Private.	10	....	70
Wyatt (South) . .	Concord ave. . .	Lincoln parkway .	Public.	40	496	....
Wyatt (North) . .	Washington st. .	Lincoln parkway .	Public.	40	606	....
Yorktown	{ 100 ft. north of Malvern ave. }	Cambridge line .	Private.	40	....	548

* Proposed

Table Showing the Location, Length, and Width of Public and Private Streets.—Concluded.

UNNAMED STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Court	16 Craigie st. .	Westerly . . .	Private.	25	....	126.
Court	26 Craigie st. .	Westerly . . .	Private.	25	....	126
Court	36 Craigie st. .	Westerly . . .	Private.	25	....	126
Court	292 Broadway .	Southwesterly .	Private.	15	....	96.
Court	58 Dane st. . .	Easterly . . .	Private.	10	....	70
Court	66 Lowell st. .	Westerly . . .	Private.	25	....	101
Court	78 Lowell st. .	Westerly . . .	Private.	25	....	101
Court	Olive ave. . .	Porter st. . .	Private.	7.5	....	156
Court	10 Stone ave. .	Northwesterly .	Private.	20	....	113.
Court	21 Albion st. .	Northeasterly .	Private.	10	....	100.
Court	227 Columbia st.	Northwesterly .	Private.	10	....	117
Court	11 Albion st. .	Northeasterly .	Private.	9	....	170.
Court	20 Dimick st. .	Southwesterly .	Private.	39.25	....	136
Court	255 Wash'gt'n st.	Northwesterly .	Private.	30	....	176
Total . . . .	. . . . .	. . . . .	. . . . .	. . . .	317,490	161,622

Public, 60.11 miles; private, 30.59 miles.

REPORT OF COMMITTEE ON HIGHWAYS.

IN COMMITTEE ON HIGHWAYS, }
December 30, 1899. }

To the City Council:—

Gentlemen,—The Committee on Highways presents the following report for the year ending December 31, 1899:—

Highways Account.

CREDIT.

Appropriation	\$40,000 00
Receipts and Credits:—	
Commonwealth of Massachusetts, street railway tax	\$60,510 20
Sewers Construction account, for repairing sidewalks and gutters after laying sewers	163 65
Rent of dwellings at City Farm	136 00
	60,809 85
Value of materials on hand January 1, 1899	1,286 77
Value of tools and property on hand January 1, 1899	16,541 60
Net gain on tools, property, and materials	3,466 94
	\$122,105 16
Total credit	

DEBIT.

Expenditures:—

For advertising laying out Alston, Bartlett, Bolton, Houghton, Melvin, Oak, Tennyson, and Thorndike streets and Liberty avenue	\$97 50
Construction of streets, as appears by Table A at end of this report	9,255 10
About ¼ cost of road construction at Lincoln Park, the remainder being borne by the Public Grounds department (this item being cost of connecting adjacent streets with Lincoln Parkway)	1,041 05
Repairs of sundry streets, as appears by Table B at end of this report	12,865 14
General repairs	12,490 00
Paving of gutters in connection with setting of edge-stones, as specified in the table of sidewalks, etc., in the City Engineer's report	4,142 94
Paving of gutters in connection with the setting of edge-stones as specified in Table C at end of this report, 427 square yards	436 64
Street crossings	1,278 95
Repairs of stone paving (including Marshall-street gutters, \$417.10)	1,748 44
Repairs of brick sidewalks (including Marshall-street sidewalks, \$1,761.87)	4,760 69
Resetting edgestones	662 21
	\$48,778 66
Amount carried forward	

Amount brought forward	\$48,778 66
Repairs of gravel sidewalks (renewing gravel)	2,878 45
Repairs of street crossings	1,444 55
Openings for new streets off Sycamore street, called Florence terrace and Fairview terrace	42 95
Setting circles at entrances to streets intersecting the Boulevard from Broadway and College avenue to North street	242 45
Street signs erected	312 83
Care of subways at Kent and Sacramento streets	201 99
Culvert at College avenue	42 05
Maintenance of Middlesex-avenue bridge, being one-half the cost, the balance being borne by the City of Med- ford	941 99
Repairing Boston-avenue bridge	124 27
Cleaning streets	10,489 30
Removing snow and ice and care of slippery sidewalks	4,200 31
Repairs of City Scales, Union square	105 29
Sidewalk assessments, Highland avenue	65 16
Trimming trees	133 20
Setting trees	157 40
Removing trees	515 15
Wakefield Gravel Land (taxes)	61 76
Water for drinking fountains	40 00
Clearing streets, after laying of tracks by the West End Street Railway Co.	58 40
Books, stationery, and printing	64 58
Superintendent's salary	1,600 00
Superintendent's team (board of one horse)	262 86
Private work, the bills for which remain uncollected	120 11
Sundry expenses	2,580 64
Value of materials on hand this day	751 30

Value of tools and personal property on hand this day:—

Horses	\$3,710 00
Carts and implements used with horses	3,048 00
Harnesses and horse clothing	676 00
Stable utensils and property	200 75
Tools	1,194 30
Steam road rollers	5,000 00
Stone crusher and fittings	2,547 25
Street signs	41 50
	<hr/>
	16,417 80

Total debit	\$92,633 45
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Balance unexpended	\$29,471 71
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The Profit and Loss account on city teams, tools, property, and materials is as follows:—

CREDIT.	
Stone crusher and fittings	\$45 35
Holland-street ledge	267 30
Wild Cat hill (sand, gravel, and stone)	1,652 35
Sand	468 12
City teams	3,038 33
	<hr/>
Total	\$5,471 45
Amount carried forward	\$5,471 45

Amount brought forward \$5,471 45

DEBIT.

Tools (depreciation)	\$342 21
Repairs of tools	89 17
Repairs of steam road rollers	267 66
Edgestone and paving stock	12 86
Steam road rollers (depreciation)	1,100 00
Crushed stone	192 61

Total 2,004 51

Net excess of credits over charges \$3,466 94

The charge for the use of the steam road rollers to the various jobs of work on which they have been employed has been simply for the time of the Engineer, at the rate of \$3 for each day of actual work.

On all streets where crushed stone has been placed a charge of seventy-five cents for each single load has been made, exclusive of teaming. Fifteen thousand four hundred and sixty-six tons of stone have been placed on the streets.

Gravel and sand have been charged at fifty cents for each single load, exclusive of teaming. One thousand eighty-eight loads have been used on sidewalks and crossings, and 3,176 loads for the paving of gutters.

The crusher has been worked 235 days during the year.

The charges to the city teams are as follows:—

Horses (depreciation)	\$340 00
Carts and implements used with horses (depreciation)	154 19
Repairs of carts and implements	1,251 57
Harnesses and horse clothing (depreciation)	202 50
Repairs of harnesses and horse clothing	261 21
Stable utensils and property (depreciation)	53 85
Stable expenses and repairs	3,088 05
Grain and feed	2,653 98
Hay and straw	3,232 03
Horseshoeing	654 74
Horse medicine and doctoring	183 65

Total \$12,075 77

There are thirty-eight horses in use in the department (including the two used by the Superintendent of Streets), which are valued at \$3,710.

Seven horses have been purchased during the year, at a cost of \$1,100, five have been sold for \$175, and two have died, making the number at the beginning and at the close of the year the same.

The horses have been credited, as in former years, at the rate of \$1.40 each for every day of actual work, and the amount has been charged to the work on which they were engaged.

The cost of board for one of the horses used by the Superintendent of Streets, amounting to \$262.86, is not included in the statement of charges to city teams, but is stated separately in the foregoing list of expenditures from Highways account.

In addition to the foregoing list of credits and expenses,

work has been performed and materials furnished for other departments and for individuals or corporations, and credit has been received from other accounts or collections made by the treasurer for the same, as follows:--

Fire Department	\$570 72
Public Grounds	118 86
Public Grounds, Lincoln Park	3,251 97
Schoolhouse Incidentals	6 30
Sewers Construction	35 40
Sidewalks	2,834 15
Water Works Extension	139 06
Sundry individuals and corporations	916 15
Total	<u>\$7,872 61</u>

Sidewalks Account.

CREDIT.

Appropriation	\$10,000 00	
Transfer from Highways, Paving Webster Avenue, account	82 91	
Total credit		\$10,082 91

DEBIT.

Expenditures:—		
For advertising sidewalk hearings (sidewalks not constructed)	\$27 00	
Abatement on sidewalk assessment on Highland avenue (one estate), sidewalk laid in 1898	2 82	
Forty-one sidewalks, as per table of sidewalks in City Engineer's report	19,639 37	
Constructing sidewalks, as per table C at end of this report	\$1,081 14	
Less payments by abutters	682 71	
	<u>398 43</u>	
Books, stationery, and printing	26 00	
	<u>\$20,093 62</u>	
Less assessments	9,883 77	
Cost to City		\$10,209 85
Amount overdrawn		<u>\$126 94</u>

Highways, Paving Washington Street, Tufts Street to Boston Line, Account.

(Northwesterly side from Tufts street to the Boston Line.)

CREDIT.

Appropriation	\$10,000 00	
Receipts:—		
From Highways, round stone taken from gutters	248 38	
Total credit		\$10,248 38
Amount carried forward		<u>\$10,248 38</u>

Amount brought forward	\$10,248 38
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DEBIT.

Expenditures:—

Patrick McGovern, on account of con-	
tract	\$4,053 57
S. & R. J. Lombard, granite paving	
blocks and flagging	5,797 38
Inspection	168 15
Typewriting proposals and contracts	12 00

Total debit	\$10,031 10
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Balance unexpended	<u>\$217 28</u>
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Highways, Paving Davis Square, Account.

CREDIT.

Appropriation	\$5,000 00
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Balance unexpended	<u>\$5,000 00</u>
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Paving Washington Street.

By authority of an order dated June 14, Washington street has been paved with granite blocks on the northwesterly side from Tufts street to the Boston line. The paving blocks, 110,000 in number, were furnished by S. & R. J. Lombard, at a cost of \$49 per thousand; the area of block paving laid being 4,442 square yards. In connection with the paving, 1,350 square feet of granite flagging were laid, 1,778 linear feet of edgestones reset, and 1,967 square yards of brick sidewalks relaid. The contractor for the labor was Patrick McGovern, who was the lowest bidder. The bills are all paid, except a reserve withheld until ten months after the completion of the contract, amounting to \$212.46.

Paving Davis Square.

No paving has been done during the year in Davis square, although an appropriation of \$5,000 was made for that purpose. As locations have been granted to the West End Street Railway Company for additional tracks which have not as yet been laid, it was deemed wise to postpone the paving until some future time. The question of abolishing the grade crossing of the steam railway at this point is also a subject for consideration in this connection.

Edgestones and Paving Stock.

The contract for the furnishing of edgestones and paving stock (exclusive of the paving of Washington street) was awarded to S. & R. J. Lombard, they being the lowest bidders, at the following prices: Edgestones, forty-one and one-half cents, and circles fifty-three cents, per linear foot; three-foot corners, \$1.95 each; granite flagging, twenty-five and one-half cents per square foot; best paving blocks, \$48, and second quality, \$24, per thousand. Linear feet of edgestones set (including 6,130 feet reset), 19,224.4; square yards of brick sidewalks laid (including 6,185 yards relaid), 18,212.8; square yards of stone paving laid (including 2,535 yards relaid and 4,442 yards laid in Washington street, as before stated), 11,340; square yards of granite flagging in

crossings laid, ninety-eight; square yards of vitrified brick laid in crossings, driveways, and gutters (including 167 yards of gutter where brick was substituted for cobble stones), 731.8; square yards of concrete crossings laid, 97.5.

Miscellaneous.

Field and ledge stone have been purchased at a cost of \$4,879.17; sand to the value of \$75.50; and gravel to the value of \$163.30.

Nineteen streets have been accepted during the year; seventeen brick crossings, five concrete crossings, and nineteen flag crossings have been laid. Marshall street has been repaired, the edgestones reset, and brick sidewalks relaid.

A road at Lincoln Park 1,200 feet long has been constructed from Washington street to Wyatt street, the greater part of the cost of which has been paid for from Public Grounds—Lincoln Park account.

The culvert under College avenue has been extended ten feet to conform to the increased width of the avenue.

Twenty-five miles of streets have been opened for laying sewers, drain pipes, and electric wires.

Three hundred and sixty-one permits have been issued during the year for opening and occupying streets and sidewalks, driving over sidewalks, and blasting.

One hundred and seventy-seven defects have been reported by the police, which have received attention. The department would deem it a great favor if citizens would notify the Superintendent of Streets of defects which may come to their notice, as by so doing accidents may be prevented.

Ten thousand five hundred and eighteen loads of earth, 6,919 loads of macadam, 7,250 loads of scrapings, and 3,183 loads of ashes have been removed from the streets during the year.

Three hundred and eighteen trees, furnished by citizens, have been planted, and thirty-six trees have been cut down and removed.

Sixty-seven street signs, twenty-two private way signs, and one guide sign have been erected.

The Fitchburg Railroad Company has built a new bridge over its tracks at Beacon street, and constructed a granite wall on the Somerville-avenue side of the tracks, from near the junction of Somerville avenue and Elm street to the North Cambridge line. It is also, under authority granted by the City Council, about to build a platform for outward-bound passengers under a short section of the sidewalk, at the extreme northwesterly end of Somerville avenue.

A second street railway track has been laid in Somerville avenue, from Union square to Elm street, and through Elm street to Chester street, and a location has been granted for its extension through Davis square to Holland street. Locations have been

granted to the West End Street Railway Company to lay a double track on Broadway, from the top of Winter hill to Curtis street, and from Powder-house square, through College avenue and Boston avenue, to the Medford line at Mystic river. No work has been done on these locations, but the railway company will probably construct the road during the coming season.

Boston-avenue bridge has been replanked and made safe, but it is still in poor condition.

Hand rails have been placed on the stairs in the Kent-street and Sacramento-street subways under the Fitchburg railroad.

Tables.

The following are tables of streets constructed, streets repaired, driveways constructed, sidewalks constructed, the bricks and edgestones for which were furnished or paid for by the abutters, and crossings laid. These are in addition to the two tables in the City Engineer's report of streets accepted and sidewalks constructed.

TABLE A.—Streets Constructed.

NAME OF STREET.	FROM	TO	LENGTH IN FEET.	COST.
Adrian street . . .	Joseph street . .	Marion street . .	579	\$168 15
Atherton street . .	Central street . .	Beech street . .	264	174 45
Benton road (partial) . . .	Summer street . .	Highland avenue .	924	54 13
Bowdoin street . .	Washington street	Fremont avenue .	370	193 06
Charnwood road . .	Willow avenue . .	Gordonia road . .	589	796 41
Cook street (partial) . . .	Marion street . .	Wyatt street . .	268	37 80
College avenue widening (partial)	Powder House sq.	Medford line . .	1,700	94 65
Francesca avenue .	Elm street . . .	Liberty avenue .	762	284 35
George street . . .	Broadway . . .	Lincoln avenue .	350	202 83
Hudson street . . .	Lowell street . .	Cedar street . .	1,400	3,944 77
Ibbetson street . .	Somerville avenue	Lowell street . .	802	335 22
Lesley avenue (partial) . . .	Highland avenue .	Lexington avenue	333	48 80
Lincoln avenue . .	Lincoln street . .	Mt. Vernon street	450	259 12
Lowell street . . .	Crown street . .	Highland avenue .	600	470 20
Marion street (partial) . . .	Concord avenue .	Cook street . . .	280	83 10
North Wyatt street	Washington street	Lincoln Park . .	350	396 43
Oxford street (partial) . . .	Central street . .	School street . .	1,330	1,171 05
Stone avenue . . .	Union square . .	Columbus avenue	676	342 48
South Wyatt street	Concord avenue .	Lincoln Park . .	400	129 00
Wesley street (partial) . . .	Pearl street . . .	Otis street . . .	515	21 50
Wheatland street (partial) . . .	Mystic avenue . .	Jaques street . .	850	47 60
Total length in feet and cost			13,592	\$9,255 10

TABLE B.—Streets Repaired.

STREET.	FROM	TO	DESCRIPTION OF WORK.	FEET.	COST.
Broadway	School street	Central street	Re-macadamized	1,300	\$2,538 10
Bow street	Warren avenue	Summer street	Re-macadamized	500	534 92
Cross street	Broadway	Medford street	Re-macadamized	2,650	965 40
Elm street	Railroad crossing	Broadway	Re-macadamized	2,000	1,231 88
Franklin street	Pearl street	Broadway	Re-macadamized	1,025	496 22
Highland avenue, south-west side	Davis square	Fanning avenue	Re-macadamized	2,150	791 66
Lincoln street	Broadway	Perkins street	Re-macadamized	550	312 62
Marshall street	Broadway	Gilman square	Re-macadamized	1,650	823 00
Medford street	Railroad bridge	Washington street	Re-macadamized	3,050	693 87
Medford street	Magoun square	Sycamore street	Repairing gas, wire, and water trenches		150 15
Middlesex avenue	Mystic avenue	Northeasterly about 500 feet	Repaired with old material	500	46 40
Mystic avenue	Medford line	Wheatland street	Re-macadamized	3,300	460 83
Newton street	Webster avenue	Concord avenue	Graveled	625	100 75
Oak street	Angle	Cambridge line	Graveled	530	153 97
Pinckney street	Perkins street	Pearl street	Macadamized	425	175 92
Prospect street	Washington street	Prospect place	Re-macadamized	650	170 48
Prescott street	Highland avenue	Summer street	Re-macadamized	1,050	379 18
Putnam street	Highland avenue	Summer street	Re-macadamized	1,240	361 28
Russell street	Elm street	Cambridge line	Macadamized	700	342 32
Summer street	Bow street	Central street	Re-macadamized	2,600	373 43
Summer street	Central street	Belmont street	Re-macadamized	1,100	614 08
Summer street	Cutter square	Willow avenue	Re-macadamized	850	816 63
Vinal avenue	Highland avenue	Summer street	Re-macadamized	1,400	160 60
Willow avenue	Elm street	Morrison street	Graveled	1,650	171 45
				31,495	\$12,865 14

A great deal of the material used in the repairs noted in the foregoing table was removed from other streets without cost except for carting and in many instances without even this expense, it being surplus material delivered, where required, by parties who were placing pipes, conduits, etc., under ground. Hence the cost of many of these jobs of repairing was very small.

TABLE C.
Sidewalks Constructed where the Edgestones and Bricks were Furnished or Paid for by the Abutters.

(For Table of Sidewalks Constructed under Sidewalks Act, see City Engineer's Report.)

For.	STREET.	FEET OF EDGE-STONES.	YARDS OF BRICKS.	COST TO CITY.
S. H. Abbott	Dana street and Everett avenue	207	138.7	\$ 0 00
Albert H. Bickford	15 George street to Lincoln avenue	91.6	42.4	31 30
Harrison G. O. Bowers	Bowers avenue, both sides	570.7		106 50
J. Alba Davis	5 George street	29.8	20	16 25
Charles S. Gilman	13 George street	54.9		12 00
Elisha Littlefield, "Trustee"	55 Pinckney street, cor. Wheeler street	89.1	*57	50 15
Samuel T. Littlefield	321 Broadway		56	19 65
Emma J. Pushee	17 Monmouth street	101.4		28 80
Patrick Rafferty	Hawkins street, east side, at Somerville avenue		67	16 20
James Rawson	63, 65, and 67 Pinckney street	82.8		29 90
Thomas A. Shedd	7 George street	53.8	30.5	24 50
Catherine Summers	17 and 19 Wigglesworth street		28.5	12 28
Hiram Tomfohrde	329 Broadway		80	50 90
Total		1,281.1	†463.1 *57	\$398 43

* Granolithic. † Bricks.

In addition to the edgestones set as stated in table C, 1,332.6 linear feet have also been set in connection with other work at various places, including the new Fitchburg Railroad bridge at Beacon street, the entrance to the new boulevard at Powder House square and its intersections with sundry streets, the entrance to Lincoln Park at Washington street, the intersections of Morrison avenue with sundry streets, the roadway from Cedar street to the pumping station and the city stables, the driveway at the new fire station on Holland street, a crossing on Broadway near Waterhouse street, and the intersections of Benton road and Highland avenue, George street and Lincoln avenue, and Oxford street and Trull lane.

TABLE D.

Driveways Constructed at Expense of Abutters.

FOR.	STREET.
Martha E. Belding	79 Benton road.
Lawrence Cotter	487 Somerville avenue.
Carrie E. French	56 Adams street.
Fire Department	Holland-street Fire Station.
Charles Linehan	Webster avenue.
Frederick Lund	26 Tufts street.
Robert A. Miner	— Summer street.
D. Mullen	83 Wallace street.
George Richardson	5 Glen street.
J. C. H. Snow	54 Broadway.
Jeremiah Sullivan	30 Prescott street.
Laura M. Tesson	10 Bartlett street.
J. Frank Wellington	65 Union square.
J. Whiton	— Sycamore street.
John Wilson	Pearl street, corner Cross street.

TABLE E.—STREET CROSSINGS LAID.

Granite Flagging.

Beech street, across same, in line with the easterly side of Harvard street.
Broadway, across same, near westerly side of Waterhouse street.
Broadway, from easterly side of School street to street railway.
Cedar street, across same, in line with the southerly side of Warwick street.
Cross street, across same, at Central square.
Elm street, across same, in line with the easterly side of Linden avenue.
Elm street, southeasterly side, across Hall avenue.
Grove street, northwesterly side, across Highland avenue.
Highland avenue, southwesterly side, across Grove street.
Marshall street, westerly side, across Stickney avenue.
Medford street, across same, in line with the westerly side of Prospect-hill avenue.
Newton street, northwesterly side, across Clark street.
Orchard street, southwesterly side, across Russell street.
Oxford street, northeasterly side, across Trull lane.
Richdale avenue, across same, in line with the westerly side of Lee street.
Russell street, northwesterly side, across Orchard street.
School street, westerly side, across Highland avenue.
Summer street, across same, at its junction with Bow street.
Tufts street, northeasterly side, across Dell street.

Vitrified Brick.

Benton road, easterly side, across Highland avenue.
Central street, northwesterly side, across Atherton street.
Central street, northwesterly side, across Monmouth street.
Cherry street, northwesterly side, across Fairlee street.
Cherry street, northwesterly side, across Summer street.
Columbus avenue, in line with the southeasterly side of Stone avenue.
Highland avenue, northeasterly side of street railway, in line with easterly side of Central street.

Holland street, westerly side, across Newbury street.
Mt. Vernon street, in line with the southwesterly side of Wheeler street.
Pinckney street, in line with the northeasterly side of Wheeler street.
Summer street, from southeasterly side of Quincy street to street railway.
Summer street, northeasterly side, across Cherry street.
Summer street, in line with the northwesterly side of Laurel street.
Summer street, in line with the northwesterly side of Preston street.
Summer street, in line with the northwesterly side of Quincy street.
Thurston street, westerly side, across Evergreen avenue.
Washington street, southerly side, across Lincoln Parkway.

Concrete.

Highland avenue, across same, opposite No. 50, between Walnut street and Vinal avenue.
Highland avenue, southwesterly side, across Tower street.
Morrison street, in line with the westerly side of Morrison place.
Morrison street, in line with the westerly side of Grove street.
School street, in line with the northerly side of Berkeley street.

F. DEWITT LAPHAM, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT OF THE COMMITTEE ON SEWERS.

IN COMMITTEE ON SEWERS, }
December 30, 1899. }

To the Board of Aldermen of Somerville:—

The Committee on Sewers presents the following report for the year ending December 31, 1899:—

Maintenance Account.

CREDIT.

Appropriation		\$8,500 00
Receipts and credits:—		
Boston Elevated Railway Co., changing lines and grades of manholes	\$57 66	
Massachusetts Pipe Line Gas Co., inspection and labor	364 11	
Public Grounds account, labor and materials	21 18	
New England Telephone & Telegraph Co., inspection and labor	75 93	
Fire Department, Fire Station, Clarendon Hill, account, grading	13 93	
J. C. Snow et als., constructing manhole on Pearl Terrace sewer	24 53	
Somerville Iron Foundry, sale of old iron	9 24	
		<u>566 58</u>
Value of tools and property on hand January 1, 1899		842 75
Value of materials on hand January 1, 1899		26 32
		<u>8,935 65</u>
Total credit		\$8,935 65

DEBIT.

Expenditures:—

For maintenance of sewers, including repairing and cleaning sewers and manholes	\$2,883 84	
Repairs of sewers and catch-basins, mason work	536 01	
Maintenance of (cleaning and flushing) catch-basins	3,540 21	
Inspection of house drains	485 55	
Rent of water course across marsh to Mystic river	225 00	
Changing lines and grades of catch-basins	211 77	
Changing lines and grades of manholes	195 22	
Massachusetts Pipe Line Gas Co., inspection and labor	364 11	
New England Telephone & Telegraph Co., inspection and labor	75 93	
Boston Elevated Railway Co., changing lines and grades of manholes	36 74	
		<u>\$8,517 64</u>
Amounts carried forward		\$8,935 65

Amounts brought forward	\$8,517 64	\$9,935 65
Grading at Fire Station, Clarendon Hill	13 93	
Constructing drain at Elm-street playground	13 87	
Books, stationery, and printing	29 45	
Repairs of tools and property	125 62	
Arranging tools and property and maintenance of sewer yard	155 21	
Sundry expenses	37 31	
Depreciation in value of tools and property	249 09	
Value of materials on hand December 31, 1899	19 82	
Value of tools and property on hand December 31, 1899 (including purchases during the year, \$238.39)	832 05	
Total debit		\$10,030 73
Amount overdrawn		\$95 08

Construction Account.

CREDIT.

Balance unexpended December 31, 1898		\$16,882 23
Transferred from Excess and Deficiency account		16,549 22
Appropriated from Water Works Income		25,603 57
Receipts and credits:—		
For catch-basin curbs in sidewalks, received credit from Sidewalks account	\$21 33	
Jason W. Gilpatrick, construction of Medford-street sewer	101 70	
Sprague & Hathaway Co., payment on account of construction of Day-street storm drain	50 00	
West Somerville Congregational Church, payment on account of construction of Day-street storm drain	75 00	
Support of Poor, Almshouse, account, payment on account of construction of sewer in private lands from North street to Alewife Brook	442 93	
Charles A. Kelley, drain pipe	6 02	
Dividend on private sewer built for Timothy Tufts in 1888	6 25	
		703 23
Common Sewer assessments		6,406 93
Value of materials on hand January 1, 1899		119 97
Increase in value of materials		19 81
Unpaid bills of 1899		69 91
Total credit		\$66,354 87

DEBIT.

Expenditures:—

For the construction of sundry sewers, as follows:—

Somerville avenue, Section One	\$239 65
Somerville avenue, Section Two	2,763 63
Packard avenue and Private Lands	1,438 03

Amounts carried forward	\$4,441 31	\$66,354 87
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Amounts brought forward	\$4,441 31	\$66,354 87
Private Lands, from North street	802 06	
North street and Raymond avenue	272 37	
Curtis street	77 31	
Raymond avenue	11 31	
Evergreen avenue	330 09	
Medford street	193 57	
Prospect and Newton streets	3,741 09	
Windham road	277 09	
Murray street	257 39	
Sycamore and Willoughby streets	737 37	
Concord-square System, Section One	4,901 16	
Concord-square System, Section Two	6,258 61	
College avenue	206 32	
	<hr/>	
	\$22,507 05	
Abatement of sewer assessments	886 43	
Broadway and Cross-street storm drain	807 74	
Broadway and Sargent-avenue storm drain	682 45	
Union square, Bow and Summer streets storm drain	977 96	
Sherman-court, Marshall-street, Gilman-square, and Medford-street storm drain	942 68	
Tannery-Brook storm drain	840 00	
Otis-street storm drain	174 55	
Private Lands, Alpine, Princeton, and Albion-streets storm drain	287 60	
School-street storm drain	948 02	
Drain connecting catch-basin, Albion street	99 06	
Building seventy-one catch-basins	3,038 65	
Books, stationery, and printing	25 25	
Sundry expenses	21 07	
Unpaid bills of 1898	916 45	
Value of materials on hand December 31. 1899	226 01	
	<hr/>	
Total debit		\$33,380 97
		<hr/>
Balance unexpended		\$32,973 90
		<hr/>

In several instances the foregoing expenditures for sewers do not represent the entire cost, as several of the sewers were begun in the year 1898, and portions of the contract prices for others are withheld until the expiration of a specified time after their completion.

A detailed statement of the work of this department during the year will be found in the report of the City Engineer.

For the Committee on Sewers,

FREDERICK M. KILMER, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT OF THE COMMITTEE ON FIRE DEPARTMENT.

IN COMMITTEE ON FIRE DEPARTMENT, }
December 30, 1899. }

To the City Council of Somerville:—

The Committee on Fire Department presents the following report for the year ending December 31, 1899:—

Fire Department Account.

CREDIT.

Appropriation	\$58,000 00
Transfer from Interest Account	700 00
	<hr/>
Total credit	\$58,700 00

DEBIT.

Expenditures:—

For salaries of premanent men and substitute drivers	\$31,230 84
Salaries of call men	11,289 89
Improvements and repairs of apparatus and vehicles	981 91
Improvements and repairs of buildings and furniture and new furniture	1,550 53
New horse	185 00
Hay and straw	2,041 58
Grain and feed	1,070 38
Horseshoeing	809 04
Horse medicine and doctoring	90 60
Harnesses, and repairing same	291 39
Hose, and repairing same	1,389 20
Fuel	1,138 74
Gas	145 76
Electric lighting	581 37
Washing and ironing	374 42
Water for hydrants and buildings	4,524 14
Ice	111 27
Insurance	506 25
Fire extinguishers	115 75
Telephones, rentals and tolls	173 92
Supplies	522 27
Incidentals	462 85
	<hr/>
Total debit	\$59,587 10
	<hr/>
Amount overdrawn	\$887 10
	<hr/>

Fire Department, Fire Station, Clarendon Hill, Account.

CREDIT.

Unexpended balance of 1898	\$7,650 00	
Appropriation for 1899	4,000 00	
	<hr/>	
Total credit		\$11,650 00

DEBIT.

Expenditures:—

On building:—

To contractor, on account of contract	\$6,953 50
To contractor, extras	492 00
To sundry parties	469 61
For architects' services	373 45
Driveway	595 47
Gong and striker	1,105 00
Furniture and bedding	364 95
Apparatus	855 60
Horses (2)	335 00
Harnesses	72 70

Total debit	<hr/>	\$11,617 28
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Balance unexpended		<hr/> <hr/> \$32 72
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The two-door fire station on Holland street, corner of Newbury street, Clarendon hill, which was begun in the year 1898, has been completed, and is occupied by a new company, called Hose and Chemical Company No. 6. The building is one of the finest in the department. It was designed by Messrs. Loring & Phipps, and erected by Ezra T. Merrill. Its cost was as follows:—

8,113.1 square feet of land, bought in 1896 (including taxes, \$30.27)	\$2,464 20
Building	15,638 56
Driveway	595 47
Horses, apparatus, furniture, and bedding	2,733 25
	<hr/>
Total	\$21,431 48

Besides the two horses purchased for the new station on Holland street, another has been bought for use on chemical engine A.

The buildings and apparatus belonging to the department have received the usual attention by the committee during the year.

For the details of the work of the department we respectfully refer to the report of the Chief Engineer.

For the Committee,

FREDERICK M. KILMER, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

OFFICE OF CHIEF OF FIRE DEPARTMENT, }
December 30, 1899. }

To the Committee on Fire Department:—

Gentlemen,—The following information concerns the operations of the Fire Department for the year ending December 31, 1899:—

Number of bell alarms (including two second alarms)	181
Number of still alarms	56
Total alarms	237
Total loss	\$47,302 25
Value of property at risk	386,756 00
Insurance on property	252,095 00

The manual force of the department consists of 104 men, as follows:—

Chief of Department	1
Assistant chief	1
Two engine companies of 14 men each	28
One engine company of 13 men	13
Two hose companies of 8 men each	16
One hose company of 9 men	9
One ladder company of 12 men	12
One ladder company of 13 men	13
One combination hose and chemical company	7
One chemical company	3
One relief driver	1
Total	104

The apparatus of the department consists of three steam fire engines, six hose wagons, one chemical engine, one combined chemical engine and hose wagon, and two hook and ladder trucks.

Each steam fire engine has a pumping capacity of 700 gallons per minute.

The weight of engines as run to fires is: Engine 1, 8,575 pounds; engine 2, 7,400 pounds; engine 4, 8,800 pounds.

Each hose wagon carries 900 feet of two-and-one-half-inch hose, forty-three feet of ladders, and two three-gallon portable chemical extinguishers; and weighs, loaded, exclusive of men, from 3,300 to 3,500 pounds.

The chemical engine has two fifty-gallon tanks, and carries 350 feet of small hose and twenty-seven feet of ladders. It weighs, ready for service, 5,240 pounds.

The combination chemical and hose wagon has two thirty-five-gallon tanks, carries 700 feet of two-and-one-half-inch hose, 300 feet of small chemical engine hose, and twenty-seven feet of ladders. It weighs, ready for service, 5,700 pounds.

Ladder truck No. 1 carries 365 feet of ladders and a life-saving jumping canvass. When ready for service, without men, it weighs 5,800 pounds.

Ladder truck No. 2 carries 325 feet of ladders, two portable chemical extinguishers, and a life-saving jumping canvass. Weight, exclusive of men, 5,700 pounds.

There are also one spare ladder truck and two spare hose reels that are kept in perfect condition and used in case of accident to the apparatus in service.

There are thirty-four horses belonging to the department, and two not owned, but cared for, by the department, namely, the Assistant Chief's horse and the wire department horse. Total number fed and shod, thirty-six, as follows:—

Engine 1	3 horses.
Engine 1 hose wagon	2 "
Engine 2	3 "
Engine 2 hose wagon	2 "
Engine 4	3 "
Engine 4 hose wagon	2 "
Chemical Engine A	2 "
Combination Hose and Chemical Wagon 6	2 "
Hose 2	2 "
Hose 3	2 "
Hose 5	2 "
Ladder 1	3 "
Ladder 2	3 "
Chief of Department	1 "
Assistant chief	1 "
Spare	2 "
Electric Lines Department	1 "
Total	36

The ten companies comprising the department responded a total of 1,006 times to the 235 bell and still alarms, traveled a total of 1,738 miles, used 83,450 feet of two-and-one-half-inch hose and 35,250 feet of chemical engine hose, 7,109 feet of ladders, and 142 tanks and 170 portable chemical extinguishers, a total of 8,210 gallons, of chemicalized water.

The new station on Clarendon hill, West Somerville, was completed and the combination chemical and hose wagon, formerly in the house of Engine 4, placed in service there October 1, a new hose wagon being provided for Engine 4.

None of the buildings of the department are in need of any extensive repairs, except the house occupied by Ladder 1 and Hose 2, at the corner of Washington and Prospect streets, which requires a thorough renovation.

A light piece of apparatus, which can be readily available, should be housed with Ladder 2, at 265 Highland avenue. This

is in the midst of a compact neighborhood, which has been built up very rapidly with wooden houses, and is of the sort where immediate service might prevent a conflagration. I earnestly recommend that a combination hose and chemical wagon be placed in this station.

The increase in the pressure on the high service water system has made it sufficient in some places to control fires. If it could be extended over the entire city it would be an invaluable element for the public safety.

The fire alarm telegraph has rendered excellent service. Although it has withstood the storms of the past year without any material damage, yet it is highly desirable that this important adjunct to the Fire Department be placed under ground, where it may be beyond danger from serious interruption. It is hoped, too, that all electric wires may be similarly disposed of as rapidly as possible, as they are now more or less of a hindrance to quick action at fires.

I wish some measure could be taken to prohibit shingle roofs; also the erection of any wooden buildings more than one story in height, covering an area of over 4,000 feet. We are rapidly becoming a congested city of wooden buildings. It seems proper to aid the fire department in bringing under control a sweeping conflagration by requiring the erection in some sections of buildings of stone, brick, or iron only, that would form a bulwark for defense against mighty flames.

I heartily extend my thanks to His Honor the Mayor, the Committee on Fire Department, and the City Council for their co-operation in all matters appertaining to the efficiency of the department.

Respectfully submitted,

J. R. HOPKINS, Chief Engineer.

Causes of Fires and Bell Alarms.

Ashes	5
Bonfire	1
Chimney	9
Children playing with matches	12
Defective gas range	1
Drying plastering	5
False alarms	23
Fire in Arlington	1
Fire in Cambridge	4
Fire in Charlestown	1
Fire in Medford	1
Fireworks	3
Furnace	1
Gas jet	2
Gas explosion	1
Grass	1
Incendiary	11
Ignited from boiler	1
Ignited from lamp	6

Ignited from stove	6
Lamp, Breaking of	5
Lamp explosion	3
Lime slacking	1
Matches, Careless dropping of	3
Naphtha, Explosion of	2
Oil stove explosion	3
Oil stove overheated	13
Plumber's stove	3
Rubbish	12
Smoke mistaken for fire	4
Steam mistaken for fire	1
Sparks from chimney	2
Sparks from forge	2
Sparks from locomotive	1
Sparks from tobacco pipe	6
Sparks on roof	11
Thawing water pipes	4
Tinsmith's stove	1
Unknown	7

ROSTER.

James R. Hopkins	Chief Engineer of Department	27 Summit ave.
Nathaniel C. Barker,	Assistant Engineer	12 Ellsworth st.

Engine Company No. 1.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Edward W. Ring,	May 6, 1847,	Captain,	Fireman,	Medford st.
Frank Langer,	July 4, 1854,	Lieutenant,	Wood moulder,	Trull lane.
John W. Bartlett,	Feb. 22, 1862,	Engineman,	Fireman,	Flint st.
William A. Burbank,	March 6, 1842,	Asst. Engineman,	Fireman,	Gilman st.
Harry W. Elwell,	April 21, 1868,	Driver,	Fireman,	Hudson st.
Harry J. Locke,	April 25, 1871,	Driver,	Fireman,	Gilman st.
Fred S. Young,	Feb. 1, 1867,	Hoseman,	On water works,	Oxford st.
Oscar J. Lingley,	April 5, 1860,	Hoseman,	Milkman,	Avon st.
Benjamin F. Johnson,	Nov. 20, 1864,	Hoseman,	R. R. yard man,	Medford st.
Sewall M. Rich,	Nov. 6, 1866,	Hoseman,	Merchant,	Medford st.
Joseph W. Mess,	Sept. 25, 1863,	Hoseman,	Pedler,	Chester ave. .
Joseph W. Hayden,	Feb. 25, 1862,	Hoseman,	R. R. yard man,	Medford st.
Charles W. Boyer,	Dec. 23, 1871,	Hoseman,	Mech. Engineer,	Highland ave.
Melvin F. Underwood,	Nov. 28, 1873,	Hoseman,	Electrician,	Richdale ave.
Bell alarms responded to				143
Still alarms responded to				2
Miles traveled				231
Feet of hose used				14,150
Feet of ladders used				155
Chemical extinguishers used				9

Engine Company No. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Thomas H. Daly,	April 3, 1845,	Captain,	Fireman,	Cross st.
John Frizzell,	Oct. 14, 1856,	Lieutenant,	Painter,	Everett ave.
Clarence V. Cook,	Oct. 1, 1858,	Engineman,	Fireman,	Arthur st.
Walter H. Young,	Dec. 25, 1869,	Asst. Engineman,	Fireman,	Oxford st.
Lewis E. Seymour, Jr.,	March 25, 1873,	Driver,	Fireman,	Brook st.
Arthur C. Sellon,	July 15, 1863,	Driver,	Fireman,	Glen st.
William J. Logan,	July 4, 1842,	Hoseman,	Painter,	Cross st.
Robert Geaton,	Feb. 22, 1861,	Hoseman,	Painter,	Ellsworth st.
Charles T. Garland,	Nov. 15, 1871,	Hoseman,	Coal Dealer,	Ellsworth st.
Edward W. Burgess,	Aug. 3, 1859,	Hoseman,	Pedler,	Otis st.
Cornelius A. Doherty,	April 30, 1873,	Hoseman,	Milkman,	Glen st.
Caleb W. Kimball,	July 16, 1874,	Hoseman,	Paperhanger,	Brook st.
Frederick W. Kimball,	Aug 11, 1866,	Hoseman,	Woodworker,	Brook st.
Bell alarms responded to				62
Still alarms responded to				8
Miles traveled				104
Feet of hose used				7,950
Feet of ladders used				420
Chemical extinguishers used				12

Engine Company No 4.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Samuel H. Stevens,	May 18, 1842,	Captain,	Fireman,	Highland ave.
Danforth S. Steele,	Sept. 9, 1850,	Lieutenant,	Fireman,	Leslie place.
Lindorf D. Bixby,	Jan. 31, 1841,	Engineman,	Fireman,	Highland ave.
John Gillooley,	June 9, 1856,	Asst. Engineman,	Fireman,	Winslow ave.
Charles H. Stearns,	Dec. 7, 1854,	Driver,	Fireman,	Highland ave.
Arthur M. Gilman,	Aug. 19, 1866,	Driver,	Fireman,	Holland st.
Eugene H. Jones,	June 17, 1864,	Hoseman,	Lineman,	Chandler st.
John F. Burton,	Feb. 14, 1857,	Hoseman,	Painter,	Highland ave.
James I. King,	March 30, 1865,	Hoseman,	Painter,	Elm ct.
Joseph A. Sander,	April 28, 1868,	Hoseman,	Teamster,	Holland st.
George C. Creighton,	Sept. 18, 1865,	Hoseman,	Type Founder,	Cutter ave.
John B. Rufer,	March 16, 1869,	Hoseman,	Blacksmith,	Holland st.
George F. Bixby,	March 27, 1869,	Hoseman,	Salesman,	Highland ave.
George H. Moore,	June 20, 1871,	Hoseman,	Cigar Dealer,	Wallace st.
Bell alarms responded to				75
Still alarms responded to				10
Miles traveled				143
Gallons of chemical water used				880
Number of tanks used				22
Feet of chemical hose used				3,600
Feet of hydrant hose used				13,550
Feet of ladders used				200
Chemical extinguishers used.				7
Chemical engine transferred from station August 1, 1899.				

Hose Company No. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Francis W. Ring,	Aug. 7, 1859,	Captain,	Teamster,	Wheatland st.
Daniel R. Spike,	March 22, 1844,	Lieutenant,	Janitor,	Broadway.
Henry A. Angier,	April 30, 1838,	Driver,	Fireman,	Jaques st.
Charles H. Timson,	May 27, 1861,	Hoseman,	Teamster,	Marshall st.
William F. Marble,	June 22, 1852,	Hoseman,	Fish Dealer,	Derby st.
Charles A. Woodbury,	Jan. 31, 1851,	Hoseman,	Foreman,	Sargent ave.
Harry V. Spike,	Sept. 30, 1873,	Hoseman,	Teamster,	Sargent ave.
Frederic E. Cushing,	Dec. 20, 1845,	Hoseman,	Painter,	Walnut st.
John T. Coneeny,	Nov. 2, 1876,	Hoseman,	Florist,	Jaques st.
Bell alarms responded to				94
Still alarms responded to				13
Miles traveled				27
Feet of hose used				13,650
Feet of ladders used				55
Chemical extinguishers used				27

Hose Company No. 3.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Benjamin H. Pond,	Oct. 25, 1867,	Captain,	Fireman,	Bonner ave.
Frank L. Draper,	July 31, 1852,	Lieutenant,	Lineman,	Chester ave.
Francis S. Brown,	Feb. 4, 1845,	Hoseman,	Watchman,	Columbus ave.
Thomas W. Joy,	Feb. 22, 1856,	Hoseman,	Cooper,	Prospect st.
John H. Cuddy,	July 5, 1852,	Hoseman,	Laborer,	Bow-st. pl.
Alfred R. Higgins,	Feb. 25, 1849,	Hoseman,	Cooper,	Prospect st.
Edward A. Parker,	Oct. 29, 1851,	Hoseman,	Laborer,	Oxford st.
Lyle Sterling,	Feb. 9, 1867,	Hoseman,	Horse Trainer,	Lake st.
Bell alarms responded to				101
Still alarms responded to				5
Automatic alarms responded to				3
Miles traveled				119
Feet of hose used				13,200
Feet of ladders used				150
Chemical extinguishers used				39

Hose Company No. 5.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Edwin F. Trefren,	March 28, 1858,	Captain,	Fireman,	Somerville ave.
William J. Blaisdell,	May 16, 1846,	Lieutenant,	Painter,	Quincy st.
Martin E. Driscoll,	Dec. 21, 1872,	Hoseman,	Painter,	Somerville ave.
Horace L. Dunklee,	Dec. 12, 1854,	Hoseman,	Tinsmith,	Somerville ave.
George R. Green,	Feb. 27, 1866,	Hoseman,	Florist,	Belmont st.
Michael H. Kennedy,	July 14, 1873,	Hoseman,	Laborer,	Somerville ave.
Otto T. Teakles,	March 22, 1871,	Hoseman,	Plasterer,	Belmont st.
Daniel W. McDermott,	March 14, 1846,	Hoseman,	Painter,	Somerville ave.
Bell alarms responded to				116
Still alarms responded to				10
Miles traveled				145
Feet of hose used				19,200
Feet of ladders used				150
Chemical extinguishers used				51

Hose and Chemical Company No. 6.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Joseph A. Cribby,	Aug. 22, 1864,	Captain,	Fireman,	Thorp pl.
George W. Bridges,	March 22, 1876,	Lieut. and Driver,	Fireman,	Westminster st.
Frank M. Ott,	Dec. 19, 1876,	Hoseman,	Light Trimmer,	Rogers ave.
Walter M. Brown,	Sept. 6, 1863,	Hoseman,	Milkman,	Hawthorne st.
Elmer C. Shiere,	Apr. 29, 1878,	Hoseman,	Grocer's Clerk,	Elm st.
Frederick C. Hathaway,	Feb. 11, 1876,	Hoseman,	Laundryman,	Elm st.
Charles H. Bridges,	Nov. 29, 1848,	Hoseman,	Machinist,	Westminster st.

SERVICE FROM OCTOBER 1, 1899.

Bell alarms responded to	13
Still alarms responded to	0
Covered at Engine 4 station	5
Miles traveled	22
Gallons of chemical water used	440
Number of tanks used	11
Feet of chemical hose used	1,650
Feet of hydrant hose used	1,750
Feet of ladders used	40

Hook and Ladder Company No. 1.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Melvin B. Ricker,	Aug. 30, 1841,	Captain,	Fireman,	Washington st.
Horace P. Ewell,	Feb. 27, 1857,	Lieutenant,	Carpenter,	Bow-st. pl.
Richard F. Clarkson,	May 18, 1859,	Driver,	Fireman,	Rossmore st.
William A. McLane,	Jan. 7, 1859,	Ladderman,	R. R. Engineer,	Clark st.
Patrick J. Fallon,	March 3, 1859,	Ladderman,	Upholsterer,	Somerville ave.
James D. Perkins,	Nov. 5, 1858,	Ladderman,	Paperhanger,	Lake st.
Martin S. Lacy,	Oct. 18, 1862,	Ladderman,	Painter,	Washington st.
George A. Page,	Aug. 15, 1855,	Ladderman,	Laborer,	Webster ave.
James E. Thompson,	Sept. 1, 1869,	Ladderman,	Lamp Trimmer,	Webster ave.
John H. Ford,	July 16, 1859,	Ladderman,	Painter,	Oak st.
Luther F. Bickers,	May 29, 1873,	Ladderman,	Painter,	Lake st.
Robert W. Jesson,	May 10, 1873,	Ladderman,	Teamster,	Cypress st.

Bell alarms responded to	99
Still alarms responded to	3
Miles traveled	86
Feet of ladders used	2,740

Hook and Ladder Company No. 2.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Horace W. Hutchins,	Aug. 26, 1866,	Captain,	Fireman,	Hudson st.
Charles E. Shaw,	Oct. 13, 1854,	Lieutenant,	Paperhanger,	Eastman pl.
Harry F. Bucknam,	Sept. 21, 1872,	Driver,	Fireman,	Highland ave.
John E. Hill,	Dec. 25, 1845,	Ladderman,	Salesman,	Cherry st.
Clarence H. Alley,	March 16, 1869,	Ladderman,	Carpenter,	Highland ave.
Thomas McNee,	Nov. 14, 1857,	Ladderman,	Roofer,	Hersey st.
Clarence T. Conant,	Dec. 10, 1866,	Ladderman,	Milkman,	Hudson st.
William J. Kennedy,	March 19, 1864,	Ladderman,	Plumber,	Alpine st.
LeBaron Emery,	May 11, 1860,	Ladderman,	Painter,	Alpine st.
Frederick L. Jenson,	July 2, 1872,	Ladderman,	Painter,	Highland ave.
John H. Givan,	June 9, 1865,	Ladderman,	Grocer,	Crocker st.
George F. Hughes,	Oct. 6, 1852,	Ladderman,	Painter,	Highland ave.
Fred W. Merrill,	Sept. 18, 1867,	Ladderman,	Electrician,	Crocker st.
Bell alarms responded to				83
Still alarms responded to				3
Miles traveled				142
Feet of ladders used				2,409
Chemical extinguishers used				25

Chemical Engine Company A.

NAME.	BORN.	RANK.	OCCUPATION.	RESIDENCE.
Wilfred Young,	Aug. 7, 1874,	Lieutenant,	Fireman,	Highland ave.
Jesse A. Lipsett,	Sept. 3, 1865,	Operator,	Fireman,	Thorp pl.
Henry J. Turner,	Feb. 24, 1864,	Driver,	Fireman,	Somerville ave.
Bell alarms responded to				164
Still alarms responded to				5
Miles traveled				345
Gallons of chemical water used.				6,480
Number of tanks used				108
Feet of hose used				30,000
Feet of ladders used				190

Relief Driver.

George R. Dale; born, Jan. 22, 1871; residence, 25 Newbury st.

REPORT OF COMMITTEE ON FUEL AND STREET LIGHTS.

IN COMMITTEE ON FUEL AND STREET LIGHTS, }
December 30, 1899. }

To the City Council of Somerville:—

The following is the final report of the Committee on Fuel and Street Lights for the year ending December 31, 1899:—

School Fuel Account.

CREDIT.					
Appropriation	.	.	.	.	\$12,000 00
DEBIT.					
Expenditures:—					
For fuel at					
Bell school	.	.	.	.	\$681 86
Bennett school	.	.	.	.	142 48
Bingham school	.	.	.	.	316 01
Burns school	.	.	.	.	302 69
Carr school	.	.	.	.	810 57
Cedar-street school	.	.	.	.	41 13
Cummings school	.	.	.	.	128 37
Davis school	.	.	.	.	174 10
Durell school	.	.	.	.	296 35
Edgerly school	.	.	.	.	560 73
Forster school	.	.	.	.	515 25
Glines school	.	.	.	.	660 65
Hanscom school	.	.	.	.	343 53
Harvard school	.	.	.	.	2 28
High schools	.	.	.	.	1,235 01
Highland school	.	.	.	.	651 95
Hodgkins school	.	.	.	.	513 72
Jackson school	.	.	.	.	171 56
Knapp school	.	.	.	.	845 85
Lincoln school	.	.	.	.	183 43
Morse school	.	.	.	.	619 27
Perry school	.	.	.	.	143 22
Pope school	.	.	.	.	695 33
Prescott school	.	.	.	.	800 25
Prospect-hill school	.	.	.	.	192 55
Total debit	.	.	.	.	11,028 14
Balance unexpended	.	.	.	.	\$971 86

Street Lights Account.

CREDIT.	
Appropriation	\$50,000 00
DEBIT.	
For electric lighting	\$45,937 22
Welsbach lighting	3,580 68
Changing locations of electric and Wels-	
bach poles and posts	51 61
Incidentals	5 00
Total debit	\$49,574 51
Balance unexpended	\$425 49

School Fuel.

In pursuance of an order dated May 24, 1899, the following proposals were received for the furnishing of fuel for the school-houses and public buildings of the city :—

Names of Bidders.	Furnace Coal per Ton.	Egg Coal per Ton.	Stove Coal per Ton.	Cumberland Coal per Ton.	Hard Wood per Cord.	Soft Wood per Cord.
I. L. Smith	\$4 00	\$4 25	\$4 50	\$3 25	\$6 50	\$5 50
Wellington-Wild Coal Co.	3 95	4 15	4 35	3 15	6 25	5 25

The contract was awarded the Wellington-Wild Coal Company, for one year from July 1, 1899, and all fuel required in the various buildings has been bought under said contract.

Electric Street Lights.

The contract which was made with the Somerville Electric Light Company November 1, 1898, will continue in force until November 1, 1900, and thereafter until a new contract shall be made. Under its provisions the city is paying \$110 each per year for arc lights, less deductions of two and 87-100 cents per hour for each light not burning.

By authority of an order dated May 10, 1899, all the twenty-five-candle-power incandescent lights were removed, and lights of thirty-two-candle-power substituted; and all incandescent lights which have been added during the year are of thirty-two-candle-power. This change has proved to be very beneficial. The price for the thirty-two-candle-power lights is \$30 each per year, less deductions for lights not burning at the rate of 78-100 cents each per hour. There are now 377 arc and 239 incandescent lights in the streets and public grounds of the city.

Welsbach Street Lights.

The contract made with the Welsbach Street Lighting Company of America for three years from September 15, 1898, is still in force. The price per year paid for these lights is \$30 each, the same as paid for the thirty-two-candle-power incandescent electric lights. There are at present 121 lamps in service, of which seventy-two burn gas and forty-nine naphtha. At the beginning of the year only 117 lamps were in use, but one gas and three naphtha lamps were added by the company early in the year, under an order passed by the City Council of 1898, too late in the season, to have the lamps erected that year.

For the Committee,

FRANCIS M. WILSON, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT OF SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS.

OFFICE OF SUPERINTENDENT OF ELECTRIC LINES AND LIGHTS, }
January 10, 1900. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—I herewith submit my fourth annual report, for the year ending December 31, 1899:—

Department of Electric Lines.

The fire alarm system has been kept in the best of order, all alarms having been given correctly. Three new boxes have been added during the year and located as follows: No 427, Cutter square; 429, Kidder and Liberty avenues; and 431, Highland avenue and Gordonia road. An additional circuit has been provided in the section west of Cedar street, which before had but one circuit; thus placing the boxes on alternate wires, and covering a large amount of new territory. The new engine house at Clarendon hill has been equipped with electrical appliances for opening stall doors, lighting, etc., on the first blow of the gong. During the year an emergency wagon has been placed in service. This wagon, besides its regular work on repairs and construction, is used for what its name implies, that is, emergency calls. Whenever notice is received at the Central fire station of any pole or wire being down, this wagon is dispatched to the scene, and everything done to insure the safety of the public until the damage is repaired. I would recommend keyless doors for fire alarm boxes, and the replacing of the old boxes, which have been in service some twenty-five years, with more modern boxes, thus greatly decreasing the danger of two boxes being pulled in at the same time. This danger increases in proportion to the number of boxes in service. The tower strikers on the houses of Engine 4 and Hose 2 should have some parts of the machines replaced, as they have been in service more than twenty years and are badly worn.

This department has the care of some 110 miles of wire, consisting of fire alarm, police signal, telephone service, and connections with Cambridge, Medford, and Charlestown; also eighty-six fire alarm boxes, twenty-eight gongs, eight tower strikers, eight indicators, nineteen tappers, seven relays, thirty-four open circuit tappers, 362 jars of storage battery, 260 jars of open circuit

battery, forty-four police signal boxes, sixty-eight cells of gravity battery, and all electrical appliances connected with schools and public buildings. The police signal system has received its usual careful attention, and has been kept in good order.

I would again urge the necessity of placing wires under ground, as every year adds to the number of overhead wires, and thus increases the danger in case of storms and fires.

During the year 108 buildings have been inspected for electric light and power service, and 309 visits made to the same. The new almshouse has been wired and equipped with electric lights by this department, and the usual repairs made in school-houses and public buildings.

New wire run, sixteen miles; old wire removed, nine and one-half miles.

Street Lighting.

During the year the service has been much improved by the addition of sixteen arc and twenty-eight incandescent lights, located as follows:—

Arc.

Broadway and Simpson avenue.
Broadway and Liberty avenue.
Broadway and Billingham street.
Highland avenue and Conwell street.
Holland and Moore streets.
Cedar and Hudson streets.
Kidder avenue and Powder-house terrace.
New Cross street.
Cross and Flint streets.
Morton street.
Powder-house Park.
Summer street, opposite Burnside avenue.
Craigie street, near Somerville avenue.
Temple street, opposite Sydney street.
School street, opposite Winter-hill Baptist church.
Mystic avenue, opposite Smith's coal wharf.

Incandescent.

Marshall street, opposite Hose 2.
Kilby street.
Crown and Tower streets.
Robinson street.
Albion street, near Cedar street.
Howe street, opposite No. 14.
Hudson street, opposite No. 65.
Hudson street, opposite No. 157.
Electric avenue (2).
Oak and Houghton streets.
Lowell street, opposite No. 37.
Greenwood terrace.
Victoria street (2).
Clarendon avenue, near No. 68.

Mystic avenue and Grant street.
Linden avenue and Linden place.
Lawson terrace.
Bond and Jaques streets.
Chester avenue.
Everett avenue, near Dana street.
Pinckney street, near Washington street.
Garrison avenue.
Glover circle.
Norwood avenue.
Park street, opposite No. 68.
Gilman street, opposite No. 33.

This makes a total of 377 arc, 239 incandescent, and 121 Welsbach lights. Two of the arc lights are on Broadway Park, and one is on Nathan Tufts Park. Many arc lights have been moved from side streets to main thoroughfares, and incandescent lights erected in their former locations. All of the incandescent lights have been changed from twenty-five to thirty-two-candle-power and new deflectors placed on the same. They make a good light for residential streets, as three of them can be placed in service for less than the cost of one arc light, and cover more territory.

The Superintendent will gladly receive reports, from any citizens, of poor lamp service, and will take steps to have the trouble remedied at once.

I desire to extend my thanks to His Honor, the Mayor, and the Committee on Electric Lines and Lights for the consideration shown this department during the year.

Respectfully submitted,

EDWARD BACKUS,

Supt. of Electric Lines and Lights.

REPORT OF THE COMMITTEE ON PUBLIC PROPERTY.

IN COMMITTEE ON PUBLIC PROPERTY, }
December 30, 1899. }

To the City Council of Somerville:—

The Committee on Public Property presents the following report for the year 1899:—

Police Station Incidentals Account.

CREDIT.	
Appropriation	\$2,000 00
Receipts:—	
For rent of court room	600 00
Rent of armory for 1898	100 00
Rent of armory for 1899	50 00
	<hr/>
Total credit	\$2,750 00
DEBIT.	
Expenditures:—	
For janitors' salaries	\$852 28
Gas	484 95
Water	48 30
Fuel	426 85
Insurance	300 00
Disinfectant	50 00
Supplies	23 77
Labor	28 00
Repairs and improvements of buildings and furniture	357 86
Repairing heating apparatus	66 66
New furniture	153 00
	<hr/>
Total debit	\$2,791 67
Amount overdrawn	<hr/> <u>\$41 67</u>

Schoolhouse Incidentals Account.

CREDIT.	
Appropriation	\$18,000 00
Receipts:—	
For sale of Harvard school building	65 00
Sale of old iron	83 01
Sale of second-hand furnace	20 00
Sale of Highland school sanitary building	40 00
	<hr/>
Amount carried forward	\$18,208 01

Amount brought forward	\$18,208 01	
Unearned premium on insurance of Harvard school building	5 91	
	<hr/>	
Total credit		\$18,213 92

DEBIT.

Expenditures:—

For repairs and improvements of buildings	\$8,336 92	
Furniture	1,401 05	
Repairing furniture	249 86	
Repairing heating and ventilating apparatus	1,739 36	
Care of grounds	178 30	
Teaming furniture	96 19	
Blackboards	391 22	
Maintenance of repair shop	169 30	
Water	1,757 13	
Gas	821 50	
Electric lighting	224 18	
Electric current for motor	225 15	
Insurance	1,814 00	
Gas regulator, use of	17 00	
Covering pipes with asbestos	100 00	
Building fence at O. S. Knapp school	15 00	
Concrete walks	222 65	
Grading at Martin W. Carr school	66 00	
Sidewalk at O. S. Knapp school	46 51	
Tools for manual training school	132 74	
Final payment on heating contract, Prescott school	25 23	
Removing materials from Franklin school	33 20	
School supplies	749 03	
Carriage hire, etc.	22 00	
Books	5 75	
	<hr/>	
Total debit		\$18,839 27
		<hr/>
Amount overdrawn		\$625 35
		<hr/>

The expenditures at the various schoolhouses were as follows:—

Luther V. Bell.

Repairs and improvements	\$314 54	
Repairing heating apparatus	43 59	
Teaming furniture	3 05	
Blackboards	41 32	
Water	124 83	
Gas	121 55	
Gas regulator, use of	17 00	
Supplies	12 10	
	<hr/>	
		\$677 98
		<hr/>
Amount carried forward		\$677 98

Amount brought forward \$677 98

Bennett.

Repairs and improvements	\$73 78	
Repairing furniture	2 50	
Repairing heating apparatus	55 93	
Blackboards	28 16	
Water	32 48	
	<hr/>	192 85

Bingham.

Repairs and improvements	\$76 40	
Furniture	40 85	
Repairing furniture	20 00	
Repairing heating apparatus	6 90	
Teaming furniture	50	
Water	15 26	
Insurance	75 00	
	<hr/>	234 91

Burns.

Repairs and improvements	\$199 58	
Furniture	52 75	
Repairing furniture	4 00	
Care of grounds	5 00	
Teaming furniture	2 75	
Water	40 32	
Gas	1 06	
Supplies	3 20	
	<hr/>	308 66

Martin W. Carr.

Repairs and improvements	\$180 78	
Furniture	38 65	
Repairing heating apparatus	15 45	
Care of grounds	8 80	
Teaming furniture	18 00	
Grading	66 00	
Concrete walks	126 75	
Water	209 86	
Gas	9 19	
Supplies	8 91	
	<hr/>	682 89

Cedar Street.

Repairs and improvements	\$3 55	
Water	9 75	
	<hr/>	13 30

Amount carried forward

 \$2,110 09

Amount brought forward \$2,110 09

Cummings.

Repairs and improvements	\$98 34	
Furniture	16 00	
Repairing furniture	8 00	
Repairing heating apparatus	4 35	
Concrete walks	65 90	
Water	30 52	
Insurance	202 50	
	<hr/>	425 61

Davis.

Repairs and improvements	\$137 91	
Repairing furniture	12 10	
Repairing heating apparatus	36 90	
Water	54 18	
Gas	5 41	
Insurance	202 50	
Supplies	6 00	
	<hr/>	455 00

George W. Durell.

Repairs and improvements	\$26 18	
Repairing heating apparatus	7 20	
Water	34 16	
Insurance	150 00	
	<hr/>	217 54

Edgerly.

Repairs and improvements	\$255 34	
Repairing furniture	22 75	
Repairing heating apparatus	56 80	
Teaming furniture	4 77	
Water	14 58	
Gas	50 36	
	<hr/>	404 60

Forster.

Repairs and improvements	\$235 47	
Furniture	31 00	
Repairing heating apparatus	20 40	
Teaming furniture	15 70	
Blackboards	71 68	
Water	131 36	
Gas	113 11	
	<hr/>	618 72

Amount carried forward \$4,231 56

Amount brought forward \$4,231 56

Glines.

Repairs and improvements	\$178 97	
Furniture	30 68	
Repairing furniture	13 00	
Repairing heating apparatus	83 54	
Care of grounds	16 25	
Water	222 29	
Gas	17 32	
	<hr/>	562 05

Hanscom.

Repairs and improvements	\$31 80	
Furniture	7 50	
Repairing heating apparatus	14 15	
Care of grounds	55 00	
Water	31 08	
Gas	3 06	
Insurance	50 00	
	<hr/>	192 59

Harvard.

Repairs and improvements	\$16 80	
Repairing heating apparatus	1 50	
Water	9 75	
	<hr/>	28 05

English High.

Repairs and improvements	\$424 13	
Furniture	839 94	
Repairing furniture	5 40	
Repairing heating apparatus	39 35	
Blackboards	27 55	
Gas	100 40	
Electric lighting	224 18	
Electric motor current	225 15	
Insurance	450 00	
Manual training tools	132 74	
Supplies	38 75	
	<hr/>	2,507 59

Latin High.

Repairs and improvements	\$305 93	
Furniture	17 98	
Repairing furniture	5 75	
Repairing heating apparatus	137 85	
Water	350 30	
Gas	142 70	
Supplies	30 16	
	<hr/>	990 67

Amount carried forward \$8,512 51

Amount brought forward \$8,512 51

Highland.

Repairs and improvements	\$192 87
Furniture	4 20
Repairing furniture	20 00
Repairing heating apparatus	96 00
Care of grounds	12 50
Teaming furniture	1 50
Blackboards	71 04
Water	80 24
Gas	45 52
Supplies	17 11

540 98

Hodgkins.

Repairs and improvements	\$127 21
Furniture	156 75
Repairing furniture	6 96
Repairing heating apparatus	16 33
Care of grounds	18 75
Teaming furniture	8 00
Water	98 26
Gas	10 98
Supplies	3 28

446 52

Jackson.

Repairs and improvements (including new fence around lot)	\$375 87
Repairing heating apparatus	66 85
Blackboards	15 60
Water	14 70
Supplies	9 81

482 83

O. S. Knapp.

Repairs and improvements	\$270 93
Furniture	12 75
Repairing furniture	2 80
Repairing heating apparatus	286 64
Care of grounds	13 00
Teaming furniture	3 55
Blackboards	12 32
Water	35 14
Gas	44 94
Insurance	450 00
Building fence	15 00
Sidewalk	46 51
Supplies	31 57

1,225 15

Amount carried forward \$11,207 99

Amount brought forward \$11,207 99

Lincoln.

Repairs and improvements	\$78 52	
Furniture	9 00	
Repairing heating apparatus	25 23	
Care of grounds	7 25	
Teaming furniture	1 25	
Water	20 02	
Supplies	2 21	
	<hr/>	143 48

Morse.

Repairs and improvements	\$489 13	
Furniture	22 00	
Repairing furniture	23 00	
Repairing heating apparatus	109 60	
Teaming furniture	13 30	
Blackboards	24 32	
Water	8 68	
Gas	7 23	
Supplies	1 60	
	<hr/>	698 86

Charles G. Pope.

Repairs and improvements	\$815 94	
Repairing furniture	32 75	
Repairing heating apparatus	106 40	
Care of grounds	41 75	
Teaming furniture	50	
Water	32 34	
Gas	11 85	
Concrete walks	30 00	
Supplies	20 01	
	<hr/>	1,091 54

Prescott.

Repairs and improvements	\$3,088 96	
Furniture	98 80	
Repairing furniture	70 85	
Repairing heating apparatus	391 14	
Teaming furniture	14 82	
Blackboards	72 97	
Water	141 81	
Gas	136 82	
Covering pipes with asbestos	100 00	
Final payment heating contract	25 23	
Supplies	13 30	
	<hr/>	4,154 70

Amount carried forward \$17,296 57

Amount brought forward \$17,296 57

Prospect Hill.

Repairs and improvements	\$134 49	
Repairing heating apparatus	117 26	
Teaming furniture	6 00	
Blackboards	26 26	
Water	12 00	
Insurance	84 00	
Supplies	1 46	
		<hr/>
		381 47

Albion A. Perry.

Repairs and improvements	\$203 70	
Furniture	22 00	
Teaming furniture	2 50	
Water	3 22	
Insurance	150 00	
Supplies	21 82	
		<hr/>
		403 24
Maintenance of repair shop		169 30
General school supplies		527 74
Removing materials from Franklin school		33 20
Carriage hire, etc.		22 00
Books		5 75
		<hr/>
Total debit		\$18,839 27

School Contingent, Janitors' Salaries, Account.

CREDIT.

Appropriation \$19,000 00

DEBIT.

Expenditures:—

For salaries of janitors of school buildings for the year
1899 \$17,920 30

Balance unexpended \$1,079 70

Schoolhouse, Burns Addition, Account.

CREDIT.

Balance unexpended December 31, 1898	\$12,000 00	
Transferred from Armory account	7,500 00	
		<hr/>
Total credit		\$19,500 00

DEBIT.

Expenditures:—

Fessenden & Libby, contract for construction	\$15,331 00
Fessenden & Libby, extra work	171 40

Amounts carried forward	\$15,502 40	\$19,500 00
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Amounts brought forward	\$15,502 40	\$19,500 00
Alexander Duncan & Co., contract for heating and ventilating apparatus	2,647 00	
Loring & Phipps, architects' services	907 45	
Extra plumbing	41 89	
Furniture	510 63	
Window shades	48 10	
Labor cleaning	23 40	
Total debit		19,680 87
Amount overdrawn		<u>\$180 87</u>

Schoolhouse, Ward Two, Account.

CREDIT.

Balance unexpended December 31, 1898	\$28,221 47	
Transferred from Armory account	1,500 00	
Total credit		\$29,721 47

DEBIT.

Expenditures:—

John A. Dodge, contract for construction	\$23,227 50	
Isaac Coffin & Co., contract for heating and ventilating apparatus	2,765 00	
Prescott & Sidebottom, architects	720 75	
Furniture	1,089 38	
Window shades and fixtures	147 30	
Gas service-pipe	16 50	
Gas fixtures	32 77	
Grading	224 13	
Concrete walks	108 55	
Labor cleaning	27 00	
Total debit		\$28,358 88
Balance unexpended		<u>\$1,362 59</u>

Schoolhouse, Forster Improvement, Account.

CREDIT.

Appropriation	\$35,000 00
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DEBIT.

Transferred to Public Library account	\$1,500 00	
Transferred to Schoolhouse, Highland, Sanitary Improvement, account	350 00	
Expenditures:—		
Heirs of Samuel M. Pennock, land	1,500 00	
Frank G. Coburn & Co., on account of contract for construction	13,925 00	
Isaac Coffin & Co., on account of contract for heating and ventilating apparatus	1,836 00	
Amounts carried forward	<u>\$19,111 00</u>	<u>\$35,000 00</u>

Amounts brought forward	\$19,111 00	\$35,000 00
Prescott & Sidebottom, on account of architects' services	1,062 60	
Water service	44 75	
Furniture	365 61	
Labor, cutting trees	20 00	
	<hr/>	
Total debit		\$20,603 96
		<hr/>
Balance unexpended		\$14,396 04
		<hr/>

Schoolhouse, Highland, Sanitary Improvement, Account.

CREDIT.		
Appropriation	\$5,000 00	
Transferred from Armory account	1,122 76	
Transferred from Schoolhouse, Forster, Im- provement, account	350 00	
Receipts:—		
Ezra T. Merrill, water used during con- struction	12 25	
	<hr/>	
Total credit		\$6,485 01
DEBIT.		
Expenditures:—		
Ezra T. Merrill, contract for construc- tion	\$6,000 00	
Smith & Anthony Co., contract for heating apparatus	306 00	
Loring & Phipps, plans	157 65	
	<hr/>	
Total debit		\$6,463 65
		<hr/>
Balance unexpended		\$21 36
		<hr/>

Schoolhouse, Prescott, Heating and Ventilating, Account.

CREDIT.		
Appropriation		\$2,483 77
DEBIT.		
Expenditure:—		
Alexander Duncan & Co., payment on account of con- tract for heating and ventilating apparatus		\$2,483 77
		<hr/>

Armory Account.

CREDIT.		
Balance unexpended December 31, 1898		\$10,122 76
DEBIT.		
Transferred to Schoolhouse, Burns, Addi- tion, account	\$7,500 00	
	<hr/>	
Amounts carried forward	\$7,500 00	\$10,122 76

Amounts brought forward	\$7,500 00	\$10,122 76
Transferred to Schoolhouse, Ward Two, account	1,500 00	
Transferred to Schoolhouse, Highland, Sanitary Improvement, account	1,122 76	
Total debit		<u>\$10,122 76</u>

Public Library Addition Account.

CREDIT.

Appropriation	\$15,000 00	
Transferred from Schoolhouse, Forster, Improvement, account	1,500 00	
Total credit		\$16,500 00

DEBIT.

Expenditures:—

John J. Coon & Co., on account of contract for construction	\$9,000 00	
Isaac Coffin & Co., on account of contract for heating and ventilating apparatus	1,050 00	
Loring & Phipps, on account of architects' services	391 97	
Total debit		\$10,441 97
Balance unexpended		<u>\$6,058 03</u>

Support of Poor, Almshouse, Account.

CREDIT.

Appropriation	\$20,000 00	
Transferred from Public Grounds account	1,000 00	
Total credit		\$21,000 00

DEBIT.

Expenditures:—

Heirs of Levi Russell, payment on account of land and buildings	\$12,000 00	
Arthur W. Berry, repairs and improvements of buildings	980 16	
Lumber	314 48	
Doors and window-frames	94 41	
Lime and cement	18 70	
Hardware	28 29	
Furnace work	312 60	
Plumbing	440 54	
Moving building	60 00	
Taxes for 1899	307 14	
One-half cost of construction of sewer	442 93	
Total debit		\$14,999 25
Balance unexpended		<u>\$6,000 75</u>

Expenditures, by This Committee, from Miscellaneous Account.**City Hall Expenses:—**

For repairs and improvements of building	\$305 88	
Furniture	96 79	
Repairing furniture	13 00	
Repairing heating apparatus	36 95	
Water	35 56	
Fuel	376 63	
Electric lighting	961 34	
Telephones	343 89	
Ice	125 00	
Laundry	12 00	
Papers	3 00	
Supplies	43 70	
Labor, cleaning	83 88	
Expressing bundles	16 10	
Teaming	4 00	
		<hr/>
		\$2,457 72

City Hall Annex:—

For repairs and improvements of building	\$71 00	
Water	8 68	
Fuel	132 19	
Gas	84	
Electric lighting	51 18	
Janitors' salaries	455 00	
Insurance	50 00	
		<hr/>
		768 89
Maintenance of city messenger's teams		659 80

Election Expenses:—

For fitting up polling places, repairs of boxes, fittings, etc.	\$826 18	
Care of rooms for registration, caucuses, and elections	139 52	
Rent of rooms and halls for caucuses and elections	199 50	
		<hr/>
		1,165 20
Total expenditures		<hr/> <hr/>
		\$5,051 61

Almshouse.

Under authority of Chapter 167 of the Acts of the Legislature of 1899, entitled "An Act to Authorize the City of Somerville to Take Land for an Almshouse," the estate of the heirs of Levi Russell, situated on Broadway and North street, was acquired by the city for the sum of \$18,000, together with the taxes for 1899, amounting to \$307.14. This estate is one recommended by the committee of 1898, and its purchase was authorized by the City Council of that year, but was not consummated, owing to the fact that a satisfactory title could not be given.

The estate contains about ten acres of land, with the house, sheds, and barn. The buildings, which were in rather an old and neglected condition, have been thoroughly repaired and reno-

vated, furnished, provided with plumbing and heating apparatus, and fitted up so as to meet, so far as possible, the requirements of the Overseers of the Poor.

The property was formally opened by the Board of Overseers as the "City Home" on November 15, 1899.

The total cost, including land, buildings, improvements, and furnishing, was \$23,034.89, of which amount \$20,999.25 was covered by a special appropriation by the City Council, the balance being expended from the appropriation for Support of Poor.

Public Library Addition.

Plans and specifications for an addition to the Public Library building, prepared by Loring & Phipps, architects, were adopted by the City Council May 10, and under authority of orders dated June 14, contracts were made with John J. Coon & Co. for construction, for the sum of \$13,800, and with Isaac Coffin & Co. for heating and ventilating apparatus, for the sum of \$1,789.

The addition is built on the rear of the original structure, and is in style and capacity similar to it. A stack room of the same size as the one first erected extends parallel to it from the main building, with an area between the two of sufficient size to permit of the loading and unloading of books and boxes from the several branch libraries. In the basement of the new part a room is to be set apart and fitted for a children's room, and on the main floor much more space is to be given to desk room for receiving and delivering books. The same style of finish to to be continued throughout the new part as in the old.

It is anticipated that the building, with the exception of the new stack room, will be ready for occupancy early in the year.

Albion A. Perry School.

The work on this building, which was commenced in 1898, has been continued by John A. Dodge, the contractor for construction, and was completed and accepted by the city September 8, 1899. The contract for heating and ventilating apparatus was made with Isaac Coffin & Co. for the sum of \$2,765.

As was stated in the report of last year, this building, although only a six-room building, is so constructed and located that an enlargement to twelve or even eighteen rooms can be made at any time, should the requirements of the district demand it.

The total cost of the land and building, heating and ventilating apparatus, furniture, fittings, grading, etc., was \$38,301.41.

Schoolhouse, Burns, Addition.

By an order dated March 8, 1899, plans prepared by Loring & Phipps, architects, were adopted for the addition of four rooms

to the Burns Schoolhouse on Cherry street, and under authority of the City Council, contracts have been made with Fessenden & Libby for construction, for the sum of \$15,331, and with Alexander Duncan & Co., for heating and ventilating apparatus, for the sum of \$2,647.

In addition to the four extra schoolrooms afforded, an improved sanitary system has been introduced by the addition of a small separate building for toilet rooms, access to which is had by passageways from the corridors of each floor.

The heating apparatus of the old part of the building has been thoroughly repaired, old sanitary apparatus removed, and the building put in good condition to make it harmonize with the new addition.

The total cost of the addition, heating and ventilating apparatus, furniture etc., was \$19,680.87.

Schoolhouse, Forster, Annex

In the annual report of the School Committee for 1898 a recommendation was made for the erection of a six-room building on the Forster Schoolhouse lot, and the Committee on Public Property of 1899 took the matter under advisement. Under authority of the City Council, Prescott & Sidebottom, architects, were requested to submit sketches for such a building, but it was found, after careful consideration, to be inexpedient to attempt its erection unless additional land should be acquired. This being reported to the City Council, authority was granted for the purchase of additional land, and the lot adjoining the southwesterly side of the Forster School lot was secured. This lot, containing about 3,120 square feet, being the rear of the estate numbered 109 Sycamore street, was purchased of the heirs of Samuel M. Pennock, for the sum of \$1,500.

By an order dated May 24, 1899, plans prepared by Prescott & Sidebottom, architects, were adopted for a six-room building, and under authority of orders dated June 14, contracts were made with Frank G. Coburn & Co. for construction, for the sum of \$24,900, and with Isaac Coffin & Co. for heating and ventilating apparatus, for the sum of \$3,436.

This building will be completed and ready for occupancy in the spring of 1900.

Schoolhouse, Highland, Sanitary Improvement.

During the past year the old sanitary building at the Highland Schoolhouse, which has been a source of annoyance to the school department for a number of years, has been removed, and an addition constructed containing sanitary apparatus of the most approved kind.

The new sanitary addition is two stories in height, with pass-

ageways connecting with the stair landings of the first and second stories of the main building, and is heated by a separate system.

The plans were prepared by Loring & Phipps, architects, and under authority of orders dated June 21, 1899, contracts were made with E. T. Merrill & Co., for the sum of \$6,000, for construction, and with the Smith & Anthony Company, for the sum of \$306, for heating apparatus.

The addition was completed and accepted by the committee October 12, 1899. The total cost was \$6,485.

Miscellaneous Improvements.

At the Prescott Schoolhouse extensive repairs have been made. Owing to the changes necessitated by the introduction of new heating apparatus in 1898, the woodwork, walls, and ceilings were in bad condition, and these have been thoroughly repaired, walls painted, ceilings tinted, floors relaid, and alterations made on the third floor.

At the Pope Schoolhouse, in addition to the general necessary repairs, the walls have been painted and ceilings tinted throughout the building.

At the English High Schoolhouse it has been found necessary to use the large hall on the upper floor for class purposes, and, by special authority of the City Council, the sum of \$1,000 has been expended for extra seatings.

The Harvard and Franklin school buildings, which were abandoned for school purposes, have been disposed of and removed, and the Franklin and Webster school lots turned over to the control of the Committee on Public Grounds for public playgrounds.

The usual repairs have been made at the several schoolhouses and public buildings, a detailed statement of which will be found in the report of the Superintendent of Public Buildings.

For the Committee,

SILAS L. CUMMINGS, Chairman.

WILLIAM P. MITCHELL, Clerk.

REPORT OF SUPERINTENDENT OF PUBLIC BUILDINGS.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS, }
December 30, 1899. }

To the Honorable, the Mayor, and the Board of Aldermen:—

Gentlemen,—In compliance with City Ordinance No. 19, Section 8, this report is respectfully submitted.

Repairs, alterations, and additions have been made during the past season at the several city buildings as follows:—

Luther V. Bell School.—Furniture and heating apparatus repaired.

Bennett School.—Furniture and heating apparatus repaired; blackboards reslated.

Bingham School.—New shades in four rooms, and such repairs as were needed.

Burns School.—An addition of four rooms was made to old building, improved ventilating and heating in old part, as well as new, and new method of sanitation, making one of the finest buildings in the city.

Martin W. Carr School.—Concreting and grading of lawns; whitewashing basement, and such repairs as were needed.

Cedar Street School.—This school was discontinued at the opening of the term in September. The building is now used for storage of material from other buildings.

Cummings School.—Heating apparatus and plumbing repaired; new concrete walks laid; basement whitewashed; new conductors; furniture varnished.

Davis School.—New storm windows were furnished; ventilating improved; boys' basement painted and whitewashed; heating apparatus repaired, and furniture varnished.

George W. Durell School.—Small repairs were needed.

Edgerly School.—Heating apparatus repaired; ventilating improved; furniture scraped and varnished; plumbing repaired, and office painted.

Forster School.—Heating apparatus, blackboards, and plumbing repaired; picture mouldings placed in room; furniture scraped and varnished.

Franklin School.—The building has been sold and the land turned over to the Public Grounds Committee, who have made a fine park and children's playground.

Jacob T. Glines School.—Heating apparatus repaired; furniture cleaned and varnished, and roof repaired.

Sanford Hanscom School.—Grounds graded; lawn seeded down. Few repairs were needed.

Harvard School.—Old building discontinued and sold in September.

English High School.—Roof repaired; furniture varnished; lecture hall changed to schoolrooms; outside repairs on stone and brick.

Latin High School.—Roofs, heating apparatus, and furniture repaired.

Highland School.—Heating apparatus and furniture repaired; blackboards reslated; walls painted and new sanitariums erected on rear of building; new teachers' room and principal's office in new part; new sanitariums of latest improved make.

William H. Hodgkins School.—Few repairs needed. New furniture in the room which was changed from kindergarten to higher grade.

Jackson School.—Roof shingled; new fence around lot; stoves and plumbing repaired; walls and ceilings painted and tinted; new walks in yard.

O. S. Knapp School.—Heating apparatus, fence, and brick work repaired; furniture repaired and varnished; blackboards repaired, and some reslated.

Lincoln School.—Plumbing and steam heating repaired.

Morse School.—Furniture and heating apparatus repaired; blackboards reslated; new closet in teachers' room; outside woodwork painted; new conductors.

Charles G. Pope School.—Walls painted and ceilings whitened; furniture scraped and varnished; heating apparatus repaired; the old Smede system of ventilating has been changed by providing separate ducts for the schoolrooms, which has improved the system very much.

Prescott School.—New floors and stairs throughout building; walls painted and ceilings tinted; all woodwork varnished; ventilators on roof repaired; new office for principal and new room for teachers; furniture varnished; blackboards, plastering, and plumbing repaired; new shades at all the windows.

Prospect Hill School.—Furnaces and plumbing repaired; blackboards reslated and inside woodwork varnished.

Albion A. Perry School.—This is a new building of six rooms, erected on Washington street, Ward Two, finely equipped with all modern furniture, steam heating apparatus, and the best known methods of ventilating. There are rooms in the basement for voting purposes when needed.

An annex to the Forster School is being constructed, which will be ready to use the first of February, 1900. This is a six-room building, with all modern improvements, steam heat, etc.

Respectfully submitted,

FREDERICK C. FULLER,

Superintendent of Public Buildings.

REPORT OF THE INSPECTOR OF BUILDINGS.

OFFICE OF INSPECTOR OF BUILDINGS,
SOMERVILLE, MASS., January 25, 1900. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—In accordance with city ordinance, the following report of this department for the year ending December 31, 1899, is respectfully submitted.

The number of building permits issued during the year was 315, covering 358 buildings, classified as follows:—

	WARDS.				TOTALS.
	1	2	3	4	
Single dwellings	9	15	50	119	193
Double dwelling blocks . . . . .	..	1	1	1	3
Alterations and additions	27	11	20	28	86
Stables	2	1	1	2	6
Stores	5	6	12	7	30
Shops	1	2	2	3	8
Offices	1	..	..	1	2
Stores and tenements	1	2	1	1	5
Sheds	3	4	5	4	16
Storehouses	1	..	1	..	2
Brick buildings . . . . .	..	..	2	1	3
Manufactories	1	1	1	..	3
Halls . . . . .	..	..	1	..	1
	51	43	97	167	358
Families	38	38	95	119	290

Frequent examinations have been made of buildings in course of construction or alteration, and in all cases of faulty construction, violation of ordinance, or danger from fire, the owners and builders have, on notice, complied with the orders of the Inspector.

City buildings have been erected, or additions made thereto, as follows:—

New fire station finished on Holland street, Ward Four.

A four-room addition, with improved sanitaries, at the Burns School.

A six-room annex, nearly completed, in yard of Forster School.

An addition to Public Library of reading and work rooms; also a stack room, without inside finish.

The buildings of the Russell estate on Broadway, near Alewife brook, bought and remodeled, and fitted with all modern improvements, baths, laundry, etc., for almshouse.

Valuable assistance was rendered by the Chief of Police in having patrolmen call for permits, when on duty, from builders who start foundations before taking out same, giving the Inspector opportunity to examine work while in process of construction.

The number of plumbing permits issued during the year was	457
Permits for plumbing in new buildings	190
Permits for plumbing in old buildings	251
Number of buildings in which pipes were tested with water	398

The Inspector has kept himself informed of the condition of the plumbing as the buildings have progressed, and, as necessity has required, has given directions how the work should be done.

The following is the number of licenses and renewals of licenses issued to plumbers during the year, under the Acts of 1893 and 1894, and receipts for the same paid to the City Treasurer:—

Number of master plumbers' licenses issued, 7 . . .	\$14 00
Number of journeymen plumbers' licenses issued, 5 . .	2 50
Number of master plumbers' licenses renewed, 22 . .	11 00
Number of journeymen plumbers' licenses renewed, 24 .	12 00
	<hr/>
	\$39 50

Applications for master plumbers' licenses rejected, 2.

Respectfully submitted,

FREDERICK C. FULLER, Inspector of Buildings.

REPORT OF INSPECTOR OF MILK AND VINEGAR.

OFFICE OF INSPECTOR OF MILK AND VINEGAR, }
50 MORRISON STREET, SOMERVILLE, }
December 29, 1899. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I present herewith my report as Inspector of Milk and Vinegar for the year ending December 31, 1899.

Licenses have been issued to 145 dealers in milk, and the proprietors of 110 stores and markets have been registered to sell milk the past year. There are at the present time 260 stores and markets where milk is sold in this city. I have received \$127.50 in license fees, and turned the same over to the City Treasurer.

I have spoken in former reports of the unsatisfactory manner of selling milk in stores, and the complaints that come from purchasers that they are being sold a poor article, which by no means follows. Often the best part of the cream goes with the first half of the can, and the next three or four customers believe they are buying skimmed milk, which fact is not far from correct in many cases, as no two get a fair average of the whole can. Some stores have adopted the only fair, as well as the only sanitary, method of keeping their milk in a separate tank refrigerator, where the milk is dipped out with a long-handled measure, the whole mass being thoroughly stirred at each sale, and it is kept, also, from absorbing noxious odors from ice chests that contain great varieties of provisions, from fish that is not so fresh to beef that is often too aged to be appetizing. From my experience, I am of the opinion that many cases of typhoid fever and diphtheria may be the result of the unsanitary conditions under which milk is often kept after leaving the producer. It is a well-known fact that no article of food will absorb impurities quicker than milk; and no article of food is more healthful in the family if kept under proper sanitary conditions.

The dealers licensed in this city dispense 15,798 gallons daily to their customers. While the number licensed was less than last year, the daily sales of each are thirteen gallons more. I have taken from different dealers in all parts of the city 525 samples of milk, testing each with the lactoscope, which shows the per cent. of fat or cream; also taking the specific gravity, which is supposed to detect any liquid adulteration. I have kept a record of each sample, and sent warning notices to those whose milk I con-

sidered below the standard. The tests for cream show a falling off from the average of last year, owing, doubtless, to the unprecedented dry season in this section of New England, necessitating the feeding of the cows on green crops, as corn fodder, millet, and Hungarian grass, which lack the rich nutrition of the natural pasture grasses. Milk, to be of standard quality, must show for seven months thirteen per cent. milk solids and for five months twelve per cent. solids, of which three per cent. should be fat. The State Board of Health classes milk that is not up to the standard in solids, or which has color added, or contains any preservative preparation, as adulterated.

As last year, I kept office hours in May at Union, Gilman, and Davis squares for the convenience of dealers in renewing their annual licenses, as the law requires them to take these out in that month; but many neglect that important regulation, and linger through June and July before renewing their licenses.

As last year, I have had no complaint in regard to vinegar, and have had none analyzed, as I have reason to believe that most of that used in this city is of the standard quality.

This department will, under the new city charter, be under the management of the Board of Health, where it rightfully belongs, and I hope it will be given increased facilities for doing more fully what the law intended should be accomplished.

Respectfully submitted,

CHARLES S. PHILBRICK, Inspector.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
42 SARGENT AVENUE, SOMERVILLE, }
January 1, 1900.

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the Sealer of Weights and Measures for the year ending December 31, 1899, is respectfully submitted:—

Number of weights and measures tested and sealed:—

Scales	1,124	
Weights	3,261	
Dry measures	1,461	
Liquid measures	40,491	
Yardsticks	107	
Coal baskets	64	
Coal bins	2	
	<hr/>	46,510

Number of weights and measures adjusted and sealed:—

Scales	65	
Weights	28	
Dry measures	3	
Scales tagged	38	
Scales tagged and removed	24	
	<hr/>	158

Number condemned:—

Scales	20	
Weights	5	
Dry measures	48	
Liquid measures	1,764	
Coal baskets	3	
	<hr/>	1,840

Total 48,508

Notice was given through the Somerville papers for all parties using scales, weights, or measures for the purpose of buying or selling to bring them to the office to be tested; and in June, July, August, and September the Sealer visited all places in Somerville where goods were bought or sold, and tested and sealed all found correct, and condemned all found beyond repair and useless.

Three hundred and forty pedlars and junk collectors have

come to the office with their scales and measures to be tested, and get certificates, which they require to procure permits or licenses. This plan works well, as it gives the Sealer a record of these parties.

The permit business, I think, needs a change. The permit is now good for an indefinite time. A pedler can take out a permit this year, leave the business for two or three years, and then go peddling again on the old permit. I think it should run but one year, the same as the licenses. I have held up pedlers on the street with permits dated 1890; these men should be obliged to register every year.

I renew my recommendation of 1897, that a team should be furnished the Sealer for at least six months in the year, and a helper for three months of each year, as two men are required to do certain parts of the work. A proper office, also, should be provided. The present office is in a building of my own, 12x18 feet in size, which is too small, as frequently from 200 to 1,000 cans or bottles must be left outside.

The business of this department is increasing rapidly. In 1897, my first year as sealer, I made 9,722 tests; in 1899 the number of tests was 48,508, and I do not see why this number should not be doubled within the next two years. The salary, also, is inadequate, and should be increased.

Expenses and receipts for the year 1899 are as follows:—

Printing notices in Somerville Journal and Citizen and 200 postal notices . . .	\$13 35	
1,000 tags, 1,000 certificates . . .	7 50	
Postage, \$1.00, can straightener, \$.75, acid for marking glass, \$4.15 . . .	5 90	
Record books, street and office books . . .	20 70	
Testing scale and weights . . .	72 68	
Man and team . . .	126 00	
Salary . . .	600 00	
		\$846 13
Fees received and paid to treasurer:—		
Cash received for sealing . . .	\$317 49	
Cash received for adjusting . . .	4 63	
Cash received for witness fees . . .	1 20	
Cash received for fines . . .	25 00	
Cash received for fines or due from police court . . .	25 00	
Net expense to city . . .	472 81	
		\$846 13

JOHN H. DUSSEAUT,
Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

SOMERVILLE, February 8, 1900.

To His Honor, the Mayor, and the Board of Aldermen :—

Gentlemen,—The following is my report as City Solicitor for the year 1899 :—

Cases in Court.—There have been about forty-five cases in which the city was interested. One land damage case was settled for \$815; another was tried and a finding rendered in favor of the city. Four suits for highway accidents were settled for \$2,325; one was tried and a verdict rendered against the city for \$325, for which the city will probably be indemnified; two others were contested, and have been abandoned by the plaintiffs. Two suits for abatement of taxes were settled for \$55; two others were contested, and will probably be abandoned. Two suits brought in behalf of the city, one for money expended in the relief of a pauper, and the other for the collection of taxes, have been disposed of favorably to the city.

Legislative Matters.—A bill drawn in consultation with the City Engineer was passed by the legislature, authorizing the construction of a drain by the city into Miller's river, subject to the approval of the state board of health and the board of harbor and land commissioners. An adverse decision has been rendered by the state board of health, but the matter will probably be presented to it again in a modified form for approval. A bill was drawn for establishing a triangular lot of land on the top of Winter hill as a public park, and was passed by the legislature. In order to obviate defects in the title of certain land desired for almshouse purposes, a bill was drawn authorizing the city to take the same by right of eminent domain, and was passed by the legislature, and land was taken under the act by the City Council, and an agreement was made with the owners to protect the city from liability. A bill was drawn for establishing the West Somerville parkway and passed by the legislature, land was taken by the City Council, releases from the owners of land taken were secured, and an examination made of their titles as far as seemed necessary. I consulted with those who were interested in securing from the legislature the bill for the new city charter, and suggested several changes, which were adopted.

Having learned that a bill was pending before the legislature making it compulsory for the aldermen of cities to grant licenses

for blasting in ledges, I opposed the bill before the legislative committee having it in charge, and it was reported on unfavorably by the committee and was rejected. A year ago, when requested by the city government to take legal proceedings for enforcing the ordinance relating to the prevention of blasting in ledges by persons who had failed to receive a license from the Board of Aldermen, after an investigation of the law, I came to the conclusion that there was no effective method for securing such enforcement, and this year drew a bill providing for the enforcement of the ordinance by means of injunction, such as is provided in regard to regulations of the Board of Health. The bill was acted on favorably by a committee of the legislature, and has become a law.

During the year consultations have been held with various officers and boards of the city in regard to matters in which they were concerned, perhaps the most important being that of providing for the construction of underground conduits for telephone wires. Various matters before the county commissioners have received attention, among them being the proposed alterations in the Beacon-street bridge over the Fitchburg Railroad Company's tracks, in regard to which an agreement was secured from the railroad company relieving the city from expense for the same.

An agreement was secured from Charles Eliot Norton and others for the removal of a stone wall on Beacon street.

Petitions have been brought for the abolition of five grade crossings in highways against the Fitchburg Railroad Company and the Boston & Albany Railroad Company, and are now pending in court.

Your attention is called to the fact that the authority conferred by Chapter 253 of the Acts of the Legislature for the year 1898 to take land for a park on Prospect hill expires April 1, 1901, and that there is some doubt whether the authority to assess betterments does not expire during the coming year, so that an additional act in the nature of an amendment seems desirable, if the park is to be laid out as originally intended.

Very respectfully,

FRANK W. KAAN,

City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK, }
January 25, 1900. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—The following is respectfully submitted as the twenty-eighth annual report of the City Clerk of the city of Somerville, and is for the year ending December 31, 1899:—

The receipts and payments were as follows:—

Receipts.

Balance from year 1898, being for dog licenses issued in December, 1898:—		
117 males at \$2.00	\$234 00	
17 females at \$5.00	85 00	
	<hr/>	
	\$319 00	
Less city clerk's fees paid to the city treasurer in December, 1898, 134 at \$.20 .	26 80	
	<hr/>	\$292 20
For dog licenses issued in 1899:—		
1,240 males at \$2.00	\$2,480 00	
175 females at \$5.00	875 00	
11 spayed at \$2.00	22 00	
	<hr/>	3,377 00
Recording mortgages, assignments, etc., 634 papers	\$383 00	
Certificates of marriage intentions, 600 at \$.50	300 00	
Furnishing copies of records	28 50	
Licenses:—		
To collect junk, 39 at \$2.00	78 00	
To keep junk store, 1 at \$10.00	10 00	
To keep second-hand store, 1 at \$10.00 .	10 00	
For intelligence offices, 10 at \$2.00 . . .	20 00	
For billiard and pool tables and bowling alleys, 38 licenses, for 30 tables and 8 alleys, at \$2.00	76 00	
For recording and issuing liquor licenses, 25 at \$1.00	25 00	
For night lunch wagon stand, 1	2 00	
To private detectives, 3 at \$10.00	30 00	
To auctioneers, 25 at \$2.00	50 00	
To sell fireworks, 72 at \$1.00	72 00	
For amusements, 1 (tent show), \$50.00, 45 at \$1.00, \$45.00	95 00	
	<hr/>	
Amounts carried forward	\$1,179 50	\$3,669 20

Amounts brought forward	\$1,179 50	\$3,669 20
To street musicians, 59 persons at \$.50	29 50	
To slaughter cattle, 3 at \$1.00	3 00	
	<hr/>	1,212 00
Total receipts		<hr/> \$4,881 20

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1898, to November 30, 1899, both inclusive:—		
1,348 males at \$2.00	\$2,696 00	
190 females at \$5.00	950 00	
11 spayed at \$2.00	22 00	
	<hr/>	
	\$3,668 00	
Less city clerk's fees, 1,549 at \$.20	309 80	
	<hr/>	\$3,358 20
To John F. Cole, city treasurer, monthly:—		
City clerk's fees for issuing and recording dog licenses, 1,426 at \$.20	\$285 20	
All the receipts above specified, except for dog licenses	1,212 00	
	<hr/>	1,497 20
Total payments		<hr/> \$4,855 40
Balance January 1, 1900, being for dog li- censes issued in December:—		
9 males at \$2.00	\$18 00	
2 females at \$5.00	10 00	
	<hr/>	
	\$28 00	
Less city clerk's fees paid to city treasurer, 11 at \$.20	2 20	
	<hr/>	\$25 80

Births.

Number of births in Somerville in 1899 registered	1,509
Less than previous year	10
Males	796
Females	713
Born of American parents	481
Born of foreign parents	690
Born of American father and foreign mother	163
Born of foreign father and American mother	161
Born of American mother and father of unknown nationality	3
Born of foreign mother and father of unknown nationality	8
Parents of unknown nationality	3
Number of cases of twins	17

Marriages.

Number of intention certificates issued in 1899	600
More than previous year	33
Marriages registered	627
More than previous year	32

Both parties American	302	
Both parties foreign	167	
American groom and foreign bride	89	
Foreign groom and American bride	69	
	<hr/>	627 couples
First marriage of	1,130	
Second marriage of	119	
Third marriage of	4	
Fourth marriage of	1	
	<hr/>	627 couples.

Deaths.

Number of deaths in Somerville in 1899	801	
Less than previous year	79	
Males	392	
Females	409	
	<hr/>	801
Under 10 years of age	255	
Between 10 and 20 years of age	20	
Between 20 and 30 years of age	67	
Between 30 and 40 years of age	66	
Between 40 and 50 years of age	55	
Between 50 and 60 years of age	72	
Between 60 and 70 years of age	114	
Between 70 and 80 years of age	98	
Between 80 and 90 years of age	48	
Between 90 and 100 years of age	6	
	<hr/>	801
Age of oldest person deceased	95	
Born in Somerville	243	
Born in other places in the United States	326	
Of foreign birth	220	
Birthplace unknown	12	
	<hr/>	801
Number of deaths in January	81	
“ “ February	62	
“ “ March	65	
“ “ April	87	
“ “ May	61	
“ “ June	50	
“ “ July	65	
“ “ August	82	
“ “ September	69	
“ “ October	53	
“ “ November	54	
“ “ December	72	
	<hr/>	801

The number of stillbirths recorded during the year was fifty-eight.

The causes of death may be found in the report of the Board of Health.

ASSESSED POLLS AND REGISTERED VOTERS.

Men's Lists.—For Old Wards and Precincts.

WARD.	PRECINCT.	As- sessed Polls, May 1, 1899.	REGISTERED VOTERS.							
			Nov. 19, 1898.	Re- vised Lists of Aug. 10, 1899.	Added in Sept. 1899.	Sept. 23, 1899.	Added in Oct., 1899.	Oct. 20, 1899.	Voted Sept. 26, 1899.	Voted Nov. 7, 1899.
Ward 1 . .	Precinct 1 . . .	631	351	311	11	322	13	334	66	214
" 1 . .	" 2 . . .	517	328	279	10	289	10	299	94	192
" 1 . .	" 3 . . .	871	425	378	17	395	17	412	73	225
" 1 . .	" 4 . . .	781	277	240	20	260	32	292	56	180
		2,800	1,381	1,208	58	1,266	71	1,337	289	811
Ward 2 . .	Precinct 1 . . .	886	558	524	38	562	15	577	206	428
" 2 . .	" 2 . . .	1,131	688	632	37	669	19	688	221	531
" 2 . .	" 3 . . .	802	365	308	39	347	12	359	87	275
" 2 . .	" 4 . . .	1,132	488	437	43	480	33	513	94	399
" 2 . .	" 5 . . .	1,002	375	320	30	350	23	373	75	311
		4,953	2,474	2,221	187	2,408	102	2,510	683	1,944
Ward 3 . .	Precinct 1 . . .	1,147	665	617	28	645	5	650	127	385
" 3 . .	" 2 . . .	791	477	441	19	460	4	464	94	268
" 3 . .	" 3 . . .	982	614	582	33	615	9	624	122	400
" 3 . .	" 4 . . .	1,292	690	644	30	674	28	702	153	400
		4,212	2,446	2,284	110	2,394	46	2,440	496	1,453
Ward 4 . .	Precinct 1 . . .	1,179	614	576	36	612	14	626	153	449
" 4 . .	" 2 . . .	1,273	568	508	35	543	18	561	90	392
" 4 . .	" 3 . . .	953	520	488	18	506	15	521	113	370
" 4 . .	" 4 . . .	1,252	654	587	25	612	19	631	121	406
		4,657	2,356	2,159	114	2,273	66	2,339	477	1,617
City . . .	. . . . .	16,622	8,657	7,872	469	8,341	285	8,626	1,945	5,825

Men's Lists.—For New Wards and Precincts.

WARD.	PRECINCT.	As- sessed Polls May 1, 1899.	REGISTERED VOTERS.			
			Oct. 20, 1899.	Added in Nov., 1899.	Nov. 25, 1899.	Voted Dec. 12, 1899.
Ward 1	Precinct 1	631	334	5	339	200
" 1	" 2	517	299	4	303	195
" 1	" 3	871	412	5	417	209
" 1	" 4	781	292	20	312	234
		2,800	1,337	34	1,371	838
Ward 2	Precinct 1	1,002	373	— 4	369	282
" 2	" 2	1,132	513	12	525	364
" 2	" 3	802	359	29	388	264
		2,936	1,245	37	1,282	910
Ward 3	Precinct 1	886	577	23	600	442
" 3	" 2	1,131	688	26	714	541
		2,017	1,265	49	1,314	983
Ward 4	Precinct 1	1,147	650	9	659	344
" 4	" 2	791	464	6	470	210
		1,938	1,114	15	1,129	554
Ward 5	Precinct 1	982	624	5	629	388
" 5	" 2	1,292	702	28	730	452
		2,274	1,326	33	1,359	840
Ward 6	Precinct 1	1,179	626	15	641	417
" 6	" 2	1,273	561	10	571	383
		2,452	1,187	25	1,212	800
Ward 7	Precinct 1	953	521	11	532	317
" 7	" 2	1,252	631	8	639	364
		2,205	1,152	19	1,171	681
City . . . . .	. . . . .	16,622	8,626	212	8,838	5,606

Women's Voting Lists.

WARD.	PRECINCT.	Nov. 19, 1898.	Revised Lists of Aug. 10, 1899.	Added in Sept., Oct., and Nov. 1899.	Novem- ber 25, 1899.	Voted Decem- ber 12, 1899.
Ward 1	Precinct 1	21	21	1	22	1
" 1	" 2	8	7	..	7	..
" 1	" 3	26	25	..	25	4
" 1	" 4 . . . . .	..	..	..	..	..
		55	53	1	54	5
Ward 2	Precinct 1	6	6	-3	3	1
" 2	" 2	9	9	4	9	2
" 2	" 3	3	3	3	7	..
		18	18	4	19	3
Ward 3	Precinct 1	48	41	4	45	7
" 3	" 2	84	72	..	75	11
		132	113	4	120	18
Ward 4	Precinct 1	29	26	..	26	..
" 4	" 2	30	25	3	28	2
		59	51	3	54	2
Ward 5	Precinct 1	52	44	17	61	34
" 5	" 2	41	35	4	39	28
		93	79	21	100	62
Ward 6	Precinct 1	64	56	7	63	15
" 6	" 2	51	37	8	45	11
		115	93	15	108	26
Ward 7	Precinct 1	46	45	2	47	7
" 7	" 2	66	57	1	58	11
		112	102	3	105	18
City . . . . .	. . . . .	584	509	51	560	124

Herewith are presented copies of ordinances passed since the printing of the last annual reports.

GEORGE I. VINCENT,
City Clerk.

ORDINANCES.

No. 80.

An Ordinance in Relation to Disturbing Barrels Containing Ashes or Other Refuse Materials.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. No person, except as authorized by ordinance of the city, or order, regulation, license, or permission, of the Board of Aldermen, or other board or officer of the city thereto duly authorized, or except an officer or employee of the city, and for some public purpose or use, shall move or disturb a barrel or other receptacle containing ashes or other refuse materials, or disturb, overhaul, or interfere with, the contents thereof, while said barrel or other receptacle remains in or upon a highway of the city, placed there in order that said contents may be carried away by some person authorized as aforesaid, or while said barrel or other receptacle remains on or upon a private way or land within ten feet of a highway, placed there in order that said contents may be carried away by some person authorized as aforesaid.

Approved March 2, 1899.

No. 81.

An Ordinance to Provide for an Inspector of Claims.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. The mayor may appoint a member of the police department to be an inspector of claims, whose duty shall be to assist the city solicitor in securing evidence, summoning witnesses and otherwise, in the trial of cases in which the city is interested. In addition to his pay as a member of the police department, he shall receive such compensation, if any, as the city council may determine.

Sect. 2. This ordinance shall take effect upon its passage.

Approved April 5, 1899.

No. 82.

An Ordinance to Amend Section Five of Chapter Nine of the Revised Ordinances of 1891.

Be it ordained by the City Council of the City of Somerville, as follows:—

Section 1. Section five of chapter nine of the Revised Ordinances of 1891 is hereby amended by adding the following thereto: He shall furnish to the treasurer and collector of taxes, whenever requested, an accurate description in writing of the location and boundaries of all lands which may become liable to sale for non-payment of sewer, sidewalk, and all other, betterment assessments.

Sect. 2. This ordinance shall take effect upon its passage.

Approved May 25, 1899.

JURY LIST OF THE CITY OF SOMERVILLE.

Prepared by the Registrars of Voters, under Chapter 515 of the Acts of the year 1897, January 31, 1900.

Posted February 9, 1900, and accepted by the Board of Aldermen February 21, 1900.

A

Abbott, Alonzo F., 8 Concord avenue, Clerk.
Adams, Frank H., 46 Summer street, Railroad.
Albee, John G., 101 Flint street, Clerk.
Allen, Hiram, 230 Washington street, Musician.
Allison, James W., 89 Mt. Vernon street, Carpenter.
Anderson, Peter, 34 Joy street, Teamster.
Andrews, John, 34 Albion street, Agent.
Andrews, Matthew S., 63 Morrison street, Tinsmith.
Armstrong, George D., 15 Dane street, Expressman.
Armstrong, Thomas W., 39 Partridge avenue, Sawyer.
Armstrong, William, 17 Dane street, Watchman.
Attwood, J. Lorenzo, 18 Herbert street, Bookkeeper.
Ayer, Fred C., 160 Highland avenue, Lumber and wood.
Ayer, John F., 17 Walter street, Lumber and wood.

B

Babb, Charles D., 193 School street, Real estate.
Babb, Nathaniel F., 193 School street, Real estate, etc.
Babbitt, Artemas B., 110 Perkins street, Machinist.
Bacon, Oliver, 19 Pembroke street, Clerk.
Bailey, Walter C., 72 Mt. Vernon street, Engraver.
Baker, Roger H., 9 Bedford street, Cooper.
Baker, Roswell F., 26 Hudson street, Salesman.
Bancroft, Edward A., 31 School street, Clerk.
Barker, William H., 367 Summer street, Manufacturer.
Barnard, Thomas L., 11 Grant street, Fish.
Bartlett, George E., 5 North Union street, Railroad.
Beal, Albert H., 96 Wallace street, Barber.
Bean, Gerard D., 166 Lowell street, Bookkeeper.
Beckley, Henry F., 83 Morrison street, Salesman.
Belcher, Horace A., 12 Webster avenue, Produce.
Belding, Oscar H., 62 Hudson street, Carpenter.
Bennett, Dana W., 41 Putnam street, Agent.
Bent, Charles E., rear 9 Marion street, Carpenter.
Bent, Thomas A., 120 Summer street, Carpenter.
Berry, Andrew C., 6 Centre street, Engraver.
Berton, John F., 332 Elm street, Painter.
Bertwell, Henry P., 20 Cameron avenue, Clerk.
Binney, Henry M., 60 Central street, Painter.
Binney, Martin, 9 Linden place, Agent.
Black, Peter F., 14 Atherton street, Agent.
Blake, Charles M., 13 Preston street, Newsdealer.
Blevins, Joseph J., 26 Stone avenue, Roofer.

Bossey, Charles W., 22 Ashland street, Salesman.
 Bowen, Cornelius, 128 Linwood street, Safe and machine mover.
 Bowers, Harrison G. O., 233½ Elm street, No occupation.
 Bowie, David, 11 Belmont street, Machinist.
 Bowker, Frank P., 31 Avon street, Clerk.
 Bowman, Henry F., 10 Winter-hill circle, Lithographer.
 Bowman, Sumner E., 26 Dover street, Mason.
 Brackett, Walter S., 16 Greene street, Traveling salesman.
 Bradley, Daniel, 19 Concord avenue, Barrels.
 Bradley, Daniel A., 67 Beacon street, Pianos.
 Bradley, Daniel H., 19 Concord avenue, Student.
 Bradley, Dennis E., 303 Washington street, Ornamentier.
 Bradshaw, Charles H., 7 Westwood road, Real estate.
 Bradshaw, J. Edwin, 16 St. James avenue, Clerk.
 Brastow, George K., 162 Summer street, Clerk.
 Brennan, Stephen, 70 Oxford street, Mason and builder.
 Briggs, J. Albion, 59 Vinal avenue, Real estate.
 Brigham, Charles A., 3 Dell street, Salesman.
 Brophy, Daniel, 17 Fremont avenue, Traveling salesman.
 Brown, Charles E., 36 Albion street, Carpenter.
 Brown, John H., 311 Washington street, Painter.
 Brown, Lyman H., 284 Somerville avenue, Livery stable.
 Bryant, John E., 24 Grant street, Undertaker.
 Bryant, Thomas H., 6 Edmands street, Receiving clerk.
 Buckley, Daniel J., 215 Norfolk street, Laborer.
 Buckley, John E., 18 Hancock street, Lineman.
 Bucknam, Davis P., 12 Vine street, Mason.
 Bucknam, William E., 341 Beacon street, Mason.
 Bullard, Walter H., 22 Stickney avenue, Grocer.
 Bunten, Frederick R., 32 Cedar street, Feather duster manufacturer.
 Burckes, Arthur L., 18 Sargent avenue, Clerk.
 Burke, Walter W., 337 Washington street, Hatter.
 Burns, Samuel A., 77 Pearl street, Milk driver.
 Burrows, George H., 25 North Union street, Machinist.
 Burton, Edward H., 6 Rogers avenue, Provisions.
 Butler, William, 106-A Albion street, Printer.
 Buttimer, Maurice, 351 Lowell street, Contractor.

C

Callow, John R., 42 Concord avenue, Porter.
 Caples, Philip, 42 Craigie street, Butter, etc.
 Card, Frederick L., 243 Pearl street, Provisions.
 Carpenter, Albert Q., 7 Sargent avenue, Tinsmith.
 Carpenter, Reuben, 10 Fountain avenue, Engraver.
 Carr, Albert E., 89 Oxford street, Clerk American Express Company.
 Carr, Eugene P., 18 Benton road, Salesman.
 Carter, Lorenzo D., 60 Central street, Clerk.
 Cate, Nathan E., 28 Everett avenue, Treasurer.
 Chamberlain, Russell T., 7 Winter street, Real estate.
 Chapin, Hiram O., 44 Dover street, Commission merchant.
 Chase, Charles D., 18 Ivaloo street, Engineer.
 Chase, Isaac F., 10 Thorndike street, Salesman.
 Chase, Washington I., 85 Vine street, Distiller.
 Chickering, William H., 15 Evergreen avenue, Clerk.
 Clark, Cyrus D., 30 Everett avenue, Sexton.
 Clark, Isaac H., 49 Brastow avenue, Mechanical engineer.
 Clark, J. Abbott, 45 Greenville street, Advertising agent.
 Coan, Francis E., 156 Pearl street, Stair builder.
 Coffin, Edward B., 184 Lowell street, Real estate and insurance.

Coffin, Winslow W., 186 Broadway, Real estate and insurance.
 Collins, Stephen J., 22 Putnam street, Upholsterer.
 Comee, Charles, 38 Irving street, Printing materials.
 Comee, Edgar F., 38 Irving street, Traveling salesman.
 Conant, George H., 8 Park avenue, No occupation.
 Condit, Fred H., 255 Medford street, Musician.
 Condit, Sears, 255 Medford street, Hatter.
 Cook, Levi F., 9 Thorpe place, Salesman.
 Cooper, Francis P., 188 Broadway, Engraver.
 Copithorne, John, 81 School street, Carpenter, Fitchburg railroad.
 Cosgrove, Charles M., 17 Electric avenue, Clerk.
 Coughlin, William J., 141 Medford street, Upholsterer.
 Cox, Edward, 36 Central street, Real estate.
 Craig, John W., 97 Washington street, Blacksmith.
 Crawford, J. Arthur, 19 Eastman place, Carpenter.
 Cremen, John W., 69 Oxford street, Clerk.
 Crimmings, Timothy F., 3 Maple street, Teamster and contractor.
 Cronin, Robert E., 23 Clyde street, Teamster.
 Crosby, Warren A., 32 Rush street, Fish.
 Cross, John T., 65 Oxford street, Salesman.
 Cullin, Edwin, 222 Broadway, Wholesale provisions.
 Cummings, George W., 43 Wallace street, Driver.
 Cummings, John H., 72½ Oxford street, Janitor.
 Cunningham, Thomas A., 60 Beacon street, Grocer.
 Curran, Reuben L., 29 Dana street, Foreman cabinetmaker.
 Currier, James H., 9 Mossland street, Manager.
 Currier, Samuel E., 9 Howe street, Real estate and insurance.
 Cushing, Edwin F., 72 Central street, Navy yard.
 Cushing, William E., 8 Dell street, Clerk in post-office, Boston.
 Cutler, Frank E., 70 Pearl street, Painter.
 Cutter, Fitch H., 8 Lincoln street, Motorman, Street railway.
 Cutter, George, 379 Summer street, No occupation.

D

Dadmun, Henry H., 48 Oxford street, Salesman.
 Dalton, James H., 1100 Broadway, Manager.
 Daniels, Edward S., 50 Spring street, Piano tuner.
 Daniels, Harry F., 70 Munroe street, Clerk.
 Daniels, Joseph, 93 Concord avenue, Carpenter.
 Darling, Charles S., 20 Gorham street, Whip manufacturer.
 Davenport, Foster L., 19 Charnwood road, Shipper.
 David, James B., 78 Belmont street, No occupation.
 Davis, Albert M., 16 Chauncey avenue, Teamster.
 Davis, Charles S., 94 Pearl street, Electrician.
 Davis, George M., 20 Arthur street, Mason and builder.
 Davis, Levi F. S., 113 Pearl street, Real estate.
 Davis, Thomas L., 50 Mt. Vernon street, Burlaps, etc.
 Dawes, Henry L., 8 Ashland street, Confectioner.
 Dawson, Howard, 70 Albion street, Clerk.
 Dearborn, Luther G., 169 Sycamore street, Coffee.
 De Coster, Verin, 43 Lowell street, Salesman.
 Derby, Edward J., 36 Cedar street, Fruit.
 Desmond, Daniel W., 1 Montrose street, Real estate and mortgages.
 Dewire, Michael H., 399 Washington street, Confectionery.
 Dodd, George H., 54 Marshall street, Mechanic.
 Doe, Freeland A., 39 Temple street, Cabinetmaker.
 Doten, Benjamin F., 67 Central street, Printer.
 Downing, John F., 14 Park street, Carpenter.
 Drake, James, 45 Berkeley street, Carpenter.

Dresser, George H., 193 School street, Superintendent.
Drinkwater, Frank M., 872 Broadway, Clerk.
Drouet, Ernest Charles, 62 Highland avenue, Insurance.
Dudley, Clifford G., 10 Tower street, No occupation.
Dudley, Clifton O., 6 Tower street, No occupation.
Duhig, John M., 282 Summer street, Printer.
Dunham, Marshall W., 10 Stickney avenue, Carriages.
Dunklee, Daniel D., 9 Oakland avenue, Stoves and furnaces.
Dustin, Harry N., 10 Church street, Clerk.
Dwyer, Edward, 159 Somerville avenue, Marble worker.
Dyer, Henry H., 32 Elm street, Cigars.
Dyer, Josiah T., 156 School street, Men's furnishings.

E

Earle, Israel C., 87 Irving street, Salesman.
Eaton, John M., 53 Springfield street, No occupation.
Edgett, Reuben, 347 Elm street, Carpenter.
Edmands, John B., 11 Robinson street, Stoneware manufacturer.
Egerton, Wales L., 61 Beach street, No occupation.
Elkins, John F., 142 Medford street, Contractor.
Elliot, Charles J., 59 Oxford street, Engineer.
Elliott, George E., 103 Jenny Lind avenue, Grocer.
Emerson, William J., 104 Broadway, Boots and shoes.
Emery, Allen A., 51 Oliver street, Butter.
Esty, Austin S., 203 School street, Clerk.
Evans, Francis W., 34 Preston street, Teamster.
Evans, Henry, 15 Adrian street, Teamster.

F

Fales, Wyman E., 76 Irving street, Salesman.
Falvey, Richard, 15 Rush street, Contractor.
Farnham, Rufus H., 33 Farragut avenue, Motorman.
Farrell, Patrick S., 31 Linwood street, Polisher.
Fay, Francis H., rear 101 Linwood street, Marble cutter.
Fellows, John H., 8 Sartwell avenue, Accountant.
Fenelon, J. Robert, 21 School street, Real estate.
Fisher, Alphonso, 152 Pearl street, Painter.
Fisher, Arthur V., 62 Evergreen avenue, Agent.
Fisher, Emery B., 110 Prospect street, Clerk, post-office, Boston.
Fisher, Henry H., 139 Lowell street, Salesman.
Fisher, John, 26 Hancock street, Printer.
Fisk, Elsworth, 44 Heath street, Clerk.
Fisk, Mark, 44 Heath street, Traveling salesman.
Fitch, George W., 12 Lincoln street, Job printer.
Fitz, George H., 45 Franklin street, Grain.
Flagg, Charles A., 24 Gibbens street, Salesman.
Flaherty, James P., 12 Charles street, Junk.
Flitner, George J., 1 Clifton street, Wool grader.
Flynn, William H., 67 Dane street, Real estate and insurance.
Foote, Edward H., 138 Sycamore street, Pickle manufacturer.
Foster, Elmer E., 18½ Franklin street, Fireman.
Foster, George W., 7 Evergreen avenue, Insurance.
Foster, Henry, 23 Park street, Bookbinder.
Foster, Jacob, 10 Mossland street, Carpenter.
Fox, John, 283 Somerville avenue, Laborer.
Francis, Weston O., 16 Webster street, Carpenter.

Friend, Edward, 5 Cameron avenue, Salesman.
 Frye, Charles H., 43 Sargent avenue, Machinist.
 Fulton, David, 4 Spring court, Calendrer Middlesex bleachery.

G

Gage, Burt O., 38 Dartmouth street, Machinist.
 Gage, Moses H., 9 Montgomery avenue, Clerk.
 Gale, Charles, 10 Brastow avenue, Cabinetmaker.
 Gale, John S., 6 Oliver street, Machinist.
 Galletly, Henry, 7 Franklin avenue, Cordage manufacturer.
 Garrity, Martin, Jr., 206 Norfolk street, Plumber.
 Gibby, Robert H., Jr., 26 Mondamin court, Coppersmith.
 Gifford, Frederick K., 353 Beacon street, Salesman.
 Gifford, Herbert C., 54 Preston street, Iron.
 Gilberth, Charles A., 58 Concord avenue, Tea.
 Giles, Charles E., 24 Webster street, Milk.
 Gill, Martin, 22 Bonair street, Teamster.
 Gilley, Rodney O., 11 Walter street, Steward.
 Gilman, John W., 47 Chester street, Salesman.
 Glazier, Elmer L., 41 Francesca avenue, Cabinetmaker.
 Gleason, Walter H., 13 Dartmouth street, Real estate.
 Goddard, Edward A., Jr., 35 Electric avenue, Clerk.
 Goodhue, Alfred N., 205 Highland avenue, Automobiles.
 Gordon, George A., 54 Belmont street, Agent.
 Gordon, Harris F., 7 Dell street, Foreman.
 Gordon, Huntlie, 74 Clarendon avenue, Insurance.
 Graham, Robert C., 29 Greene street, Potato dealer.
 Grant, Walter D., 35 Florence street, Clerk.
 Gray, Amasa, 71 Wallace street, Carpenter.
 Green, Oscar F., 103 Summer street, Stair builder.
 Greene, George F., 28 Lamson court, Machinist.
 Greenough, John L., 19 Vernon street, Cabinetmaker.
 Griffin, Augustus P., 22 Richdale avenue, Salesman.
 Griffin, Daniel J., 5 Summer street, Traveling salesman.
 Grover, Nelson H., 26 Oxford street, Clerk.
 Guild, Edgar A., 28 Webster avenue, Clerk.
 Guild, Julius J., 325 Washington street, Provisions.
 Gurnham, Thomas, 36 Hancock street, Periodicals.

H

Hadley, Walter M., 24 Hathorn street, Coal dealer.
 Hager, Arvine, 19 Edmands street, Milk dealer.
 Hale, C. Warner, 144 Highland avenue, Tailor.
 Haley, Dennis, 27 Belmont street, Machinist.
 Hall, Albert A., 64 Willow avenue, Accountant.
 Hall, William Franklin, 345 Broadway, Accountant.
 Harding, Walter R., 37 Myrtle street, Carpenter.
 Harlow, George H., 7 Adams street, Salesman.
 Harney, William T., 169 Linwood street, Teamster.
 Hartshorn, Frank S., 96 Glen street, Clerk.
 Haskell, Albert L., 422 Somerville avenue, Printer.
 Haskell, Otis S. M., 279 Summer street, Confectionery.
 Hatch, Frederick A., 77 Jaques street, Teamster.
 Hathaway, Henry C., 12 Pembroke street, Painter.
 Hayes, William T., 252 Medford street, Clerk.
 Hayward, Wales A., 21 Cherry street, No occupation.

Higgins, John, 38 Linwood street, Dry goods.
Higgins, Byron E., 7 Dartmouth street, Mason.
Hight, Henry O., 15 Highland avenue, Clerk.
Hill, John E., 49 Cherry street, Salesman.
Hinckley, William V. T., 10 Monmouth street, Insurance.
Hoit, Alonzo W., 275 Highland avenue, Produce dealer.
Holden, George W., 97 Curtis street, Farmer.
Holmes, Charles A., 263 Beacon street, Stoves and plumbing.
Holt, Arthur C., 197 Washington street, Architect.
Holt, Samuel W., 197 Washington street, No occupation.
Hopkins, Charles O., 212 Broadway, Bookkeeper.
Hopkins, Charles W., 23 Boston street, Engraver.
Horton, Charles H., 101 School street, Clerk.
Horton, David P., 36 Everett avenue, Trunks.
Horton, William A., 402 Highland avenue, Artist.
Howard, Chester M., 353 Highland avenue, Clerk.
Howard, John C., 157 Highland avenue, Druggist.
Howe, Frederick F., 40 Kidder avenue, Shipper.
Hulsman, Chester R., 48 Florence street, Collector.
Hunt, Cassius, 218 School street, Fish.
Hunter, William H., 11 Sycamore street, Glass engraver.
Hutchins, George E., 9 Oliver street, Mason.

I

Ingalls, Oliver W., 11 Sycamore street, No occupation.
Irish, Thaddeus P., 3 Dartmouth street, Bookkeeper.

J

Jansson, Augustus L., 102 Wallace street, Traveling salesman.
Jerauld, Horace D., 14 Chester avenue, No occupation.
Jones, Enoch B., 13 Hall street, Painter.
Jones, Thomas F., 34 Line street, Conductor.
Joy, Alden B., 20 Belmont street, Carpenter.
Joyce, Sanford, 76 Boston street, Clerk.
Judge, Daniel, 20 Rossmore street, Laborer.

K

Keane, John A., 109 School street, Piano tuner.
Kearney, Edward S., 6 Charlestown street, Clerk.
Keefe, William M., 52 Cedar street, Milk.
Kelley, Timothy J., 17 Merriam street, Clerk.
Kelley, William, 15 Leland street, Janitor.
Kelly, Charles A., 48-A Porter street, Contractor.
Kendall, Henry A., 55 Oxford street, Clerk.
Kendall, Isaac B., 338 Broadway, Insurance agent.
Kennedy, Clifton A., 21 Thorndike street, Street Railway conductor.
Kenney, James, 4 Concord avenue, Carpenter.
Kerrigan, James, Jr., 351 Washington street, Teamster.
Kidder, Andrew M., 10 Summit avenue, No occupation.
Kincaid, John E., 74 Rush street, Traveling salesman.
King, William L., 16 Kenwood street, Bookkeeper.
Kingman, Edward A., 14 Westwood road, No occupation.
Knapp, Edgar L., 141 Walnut street, No occupation.
Knowles, Abbott L., 44 Webster street, Bookkeeper.

Knowles, Benjamin H., 15 Parker street, Hatter.
 Knowles, Cyrus B., 18½ Franklin street, Railroad man.
 Knowles, Thomas, 27 Tyler street, Foreman.
 Knowles, Zoeth R., 119 Walnut street, Shipper.

L

Lacount, Eugene D., 34 Day street, Bedding.
 Lacy, Patrick, 63 Cherry street, Mason.
 Lawrence, Bernard W., 289 Highland avenue, Produce.
 Lawson, George W., 2 Lawson terrace, Carpenter.
 Lawson, Munroe C., 41 Bow street, Carpenter.
 Leavitt, Edwin, 13 Pinckney street, Insurance.
 Leavitt, Frank W., 468 Somerville avenue, Carriage manufacturer, etc.
 Leighton, Wilson E., 69 Florence street, Conductor.
 Leman, Francis H., 50 Morrison street, Artist.
 Leonard, Eugene C., 86 Avon street, Ladies' tailor.
 Libbey, Leonard M., 27 Winter street, Variety store.
 Libby, George H., 10 Ashland street, Upholsterer.
 Lind, John, 38 Clark street, Marble worker.
 Little, John K., 93 Hudson street, Bookkeeper.
 Littlefield, Samuel T., 321 Broadway, No occupation.
 Ljungqvist, Nils, 27 Everett avenue, Brass finisher.
 Locke, Warren E., 360 Elm street, Real estate.
 Longfellow, William F., 44 Pearl street, Teamster.
 Lorentzen, Henry, 18 Waldo street, Lock expert.
 Lounsbury, George H., 46 Houghton street, Bookkeeper.
 Lovering, Everett L., 21 Bradley street, Music teacher.
 Lovering, George H., 18 Chauncey avenue, Grocer.
 Lovering, Henry P., 11 Shawmut street, Mason.
 Lovering, Hiram A., 168 Broadway, Merchant.
 Lovering, Joseph E. B., 21 Bradley street, Druggist.
 Lowell, Charles W., 45 Kidder avenue, Commission merchant.
 Lowell, Frank M., 42 Aldrich street, Grocer.
 Lowell, George E., 46 Gilman street, Livery stable.
 Lund, Harrington C., 16 Austin street, Clerk.
 Lynch, James B., 571 Somerville avenue, Boot and shoe maker.

M

Macdonald, John W., 3 Boston street, Clerk.
 MacKenzie, William, 28-A Lake street, Machinist.
 MacNeil, John, 69 Winslow avenue, Carriage builder.
 Makechnie, Ernst H., 238 Elm street, Teacher of violin.
 Mann, Alfred E., 75 Washington street, Undertaker.
 Manning, John F., 152 Medford street, Teamster.
 Marshall, John A., 97 Oxford street, Salesman.
 Mason, Joseph B., 50 Boston street, Nurse.
 Mayhew, Edgar T., 14 Oakland avenue, Assistant city assessor.
 Mayhew, Josiah B., 2 Thurston street, Carriage woodwork.
 Maynard, Everett A., 22 Forster street, Baker.
 Maynard, Lambert M., 90 Highland avenue, No occupation.
 Mayo, Timothy L., 108 Highland avenue, Ship Chandler.
 McAllister, William H., 23 Wallace street, Brush maker.
 McAvoy, Henry, 117 Somerville avenue, Hacks to let.
 McCarty, John, 23 Maple street, Charcoal.
 McDonald, William M., 56 Cedar street, Wholesale beef.
 McGinty, William H., 11 Hawkins street, Architect.

McKeever, Samuel, 74 Belmont street, Captain U. S. A.
McKenna, David W., 7 Chestnut street, Pedler.
McKenna, George F., 292 Lowell street, Undertaker.
McLaughlin, Amos B., 27 Summit avenue, Trader.
McLean, William J., Oxford street, Carpenter.
McManus, Patrick, 93 Prospect street, Motorman.
Medina, John, 1167 Broadway, Merchant.
Merrifield, John A., 480 Somerville avenue, Stove dealer.
Merrifield, Otis E., Jr., 246 Summer street, Bookkeeper.
Merrill, David M., 256 Broadway, Collector.
Merrill, Ezra T., 90 Curtis street, Contractor.
Miles, Charles H., 37 Sewall street, Cigar manufacturer.
Mink, Louis, 85 Elm street, No occupation.
Moore, Joseph W., 79 Newton street, Iceman.
Munroe, William B., 1 Lincoln street, Clerk.
Murphy, Stephen F., 372 Elm street, Buyer.

N

Nason, Charles C., 21 Wigglesworth street, Carpenter.
Nealley, Edwin F., 109 Glen street, Salesman.
Nelson, Willard C., 2 Hillside avenue, Artist.
Nickerson, John D., 5 Wellington avenue, Clerk.
Niles, James H., 4 Fairlee street, Meats.
Nolan, John A., 26 Prescott street, Glass blower.
Nye, Thomas V. B., 51 Cedar street, Salesman.

O

O'Malley, Patrick J., 21 Dane avenue, Barrel dealer.
O'Neil, Bernard, 373 Washington street, Pedler.
Onthank, Charles H., 47 Munroe street, Provisions.
Osborne, Arthur D., 59 Columbus avenue, Clerk.

P

Packard, Frank E., 93 Mt. Vernon street, Conductor.
Page, George Amos, 21 Webster avenue, Plumber.
Paine, Robert S., 382 Elm street, Bookkeeper.
Parker, William S., 142 Perkins street, Upholsterer.
Parsons, Charles F., 16 Park street, Clerk.
Peck, Henry A., 41 Boston street, Printer.
Peckham, George W., 75 Central street, Real estate.
Peirce, Abner F., 26 Bartlett street, Salesman.
Peirce, Cyrus H., 75 Marshall street, No occupation.
Pendleton, Martin V. B., 63 Concord avenue, Carpenter.
Pennock, Samuel M., 47 Sargent avenue, Clerk.
Perham, Edwin R., 22 Marshall street, Express.
Perkins, Francis C., 81 Pearl street, Salesman.
Perkins, G. Henry, 16 Arthur street, Insurance.
Perry, Irving S., 16 Pleasant avenue, Broker.
Perry, Oliver H., 373 Elm street, Real estate.
Philbrick, Charles S., 50 Morrison street, Milk inspector.
Phillips, Bernard C., 8 Charlestown street, Glass cutter.
Pillsbury, Luther B., 130 Walnut street, Real estate.
Plaisted, Arthur I., 17 Franklin street, Electrician.
Plaisted, William D., 17 Franklin street, Salesman.

Pond, George W., 91 Bay State avenue, Salesman.
 Pote, Othniel M., 23 Howe street, Foreman.
 Pratt, Edgar J., 10 Park street, Tin plate worker.
 Preston, Henry, 87 Franklin street, Laborer.
 Prichard, Charles E., 145 Walnut street, Salesman.
 Prichard, George W., 2 Bean court, Teamster.
 Prime, George W., 78 Partridge avenue, Painter.
 Puffer, David, Jr., 24 Hall avenue, Produce.
 Pugh, Samuel, 269 Summer street, Clerk.
 Pushee, Leslie D., 93 Liberty avenue, Clerk.

R

Ramsdell, Charles H., 53 Tufts street, Real estate.
 Rand, George T., 336 Highland avenue, Bookbinder.
 Rawson, James, 24 Marshall street, House painter.
 Raymond, Marcus M., 37 Jaques street, No occupation.
 Read, Joseph, 21 Maple street, Laborer.
 Reardon, Thomas F., 34 Rossmore street, Barrels.
 Reed, Cyrus A., 14 Farragut avenue, Upholsterer.
 Rice, Israel P., 9 Linden circle, Carpenter.
 Rich, Isaac L., 50 Rush street, Builder.
 Rich, Samuel B., 49 Francesca avenue, Fish.
 Rich, Sewall M., 381 Medford street, Agent.
 Richards, Samuel T., 127 Summer street, Bookkeeper.
 Richardson, Benjamin H., 102 Curtis street, Clerk.
 Richardson, G. Herbert, 56 Franklin street, Clerk.
 Richardson, Homer L., 88 Albion street, Compositor.
 Rideout, Henry N. W., 7 Howe street, Clerk.
 Ridler, Parker, 37 Ames street, Salesman.
 Ring, Frank W., 12 Wheatland street, Driver.
 Rinn, Daniel H., 17 Wesley park, Victualler.
 Rivinius, Frederick W., 642-A Somerville avenue, Inspector.
 Robie, Albert E., 56 Vernon street, Clerk.
 Robinson, Francis H., 36 Beach street, Clerk.
 Robinson, William F. S., 84 Pearl street, Artist.
 Rogers, Frederick R., 13 Dickinson street, Driver.
 Rolfe, Frank A., 30 Dover street, Dry goods.
 Ross, William M., 22 Fanning avenue, Grainer.
 Russell, Arthur J., 51 Beacon street, Printer.
 Russell, Eugene L., 1196 Broadway, Clerk.
 Ryan, Michael E., 10 Murdock street, Shipper.

S

Saben, Edward E., 110 Pearl street, Insurance.
 Sallaway, George H., 63 Putnam street, Provisions.
 Sanborn, Charles H., 223 School street, Steam heating.
 Sanborn, William A., 11 Oakland avenue, Brick manufacturer.
 Sanborn, William F., 17 Benedict street, Cigars.
 Savage, Peter J., 10 Dane avenue, Machinist.
 Sawyer, Edward K., 32 Main street, Clerk.
 Schrafft, William E., 49 Belmont street, Candy.
 Sears, Eben, 25 Dartmouth street, Boiler inspector.
 Shattuck, Elwin H., 75 Harris street, Metal spinner.
 Shaw, William H., 92 Central street, Clerk.
 Sheeran, John J., 17 Merriam street, Grocer.
 Sibley, Alfred M., 42 Oxford street, Mason.

Sibley, Elton S., 42 Oxford street, Metal engraver.
 Skelton, Daniel J., 10 Burnside avenue, Carpenter.
 Smith, Albert E., 11 Church street, Cooper.
 Smith, William, 13 Smith avenue, Cabinetmaker.
 Smith, William H., 79 Irving street, Printer.
 Snow, Elwin T., 8 Pinckney place, Edge tool maker.
 Snow, John C. H., 60 Mt. Vernon street, Carpenter and builder.
 Snow, Walter H., 42 Derby street, Groceries and provisions.
 Snow, William A., 17 Francesca avenue, Ornamental iron.
 Snowman, Albert E., 22 Park street, Shipper.
 Solomon, William H., 12 Berkeley street, Real estate.
 Spaulding, Daniel B., 8 Hancock street, No occupation.
 Spellman, Thomas, 11 Ward street, Grease collector.
 Spencer, George, 39 Houghton street, Cabinetmaker.
 Spike, Daniel R., 25 Marshall street, Janitor.
 Sprague, Walter A., 42 Prospect street, Telegrapher.
 Stacey, George W., 14 Albion street, Clerk.
 Stackpole, J. Frank, 233 Broadway, Restaurant.
 Staples, Mendall G., 42 Prospect street, Teamster.
 Starbird, George M., 102 Pearl street, Carpenter.
 Steele, Danforth S., 8 Leslie place, Foreman.
 Stevens, John A., 30 Church street, Painter.
 Stevens, John E., 7 Linden avenue, Painter.
 Stevens, Oliver A., 46 Beacon street, Engineer, Globe building.
 Stillings, Rufus, 23 Arthur street, Printer.
 Stodder, George F., 4 Cross street, Fish dealer.
 Stuart, Lewis R., 21 Delaware street, Dry goods.
 Studley, Stillman S., 130 Sycamore street, Clerk.
 Sturtevant, Richard H., 31 Walnut street, Beef dealer.
 Symonds, Irving F., 14 Greene street, No occupation.

T

Tarbox, Horace E., 30 Austin street, Mason.
 Teele, F. Warren, 37 Electric avenue, Electrical engineer.
 Teele, Samuel F., 73 Curtis street, Farmer.
 Thompson, Charles W., 27 Lake street, Clerk.
 Thompson, Joseph M., 66 Marshall street, Collector.
 Thompson, William H. J., 55 Concord avenue, Carpenter.
 Thomson, Emerson, 33 Pinckney street, Clerk.
 Thurgood, Augustus, 42 Hudson street, Salesman.
 Timson, L. Edgar, 50 Webster street, Clerk.
 Tobin, Thomas J., 134 Tremont street, Clerk.
 Trefren, Aura S., 2 Brooks street, Carpenter.
 Tribble, Hiram, 50 Chandler street, Salesman.
 Tucker, D. Wallis, 241 Elm street, Shipper.
 Tuckett, Charles R., 12-A Kensington avenue, Architect.

U

Underhill, Charles L., 157 Central street, Carriage repairing, etc.
 Underhill, Jesse J., 20 Madison street, Coal and wood.
 Upton, Henry J., 45 Florence street, Rubber worker.

V

Van Buskirk, Charles, 20 Prescott street, Frame worker.
 Veazie, William, 135 Walnut street, No occupation.
 Vincent, Francis X., 95-B Prospect street, Printer.
 Vivian, James H., 210 Medford street, Salesman.
 Vreeland, Edward B., 121 Central street, Wood, coal, hay, etc.

W

Walker, Granville A., 9 Loring street, Painter.
 Walker, Irason B., 10 Union square, Blacksmith.
 Walker, Thomas G., 5 Dell street, Foreman, N. P. & P. Co.
 Ward, Benjamin A., 22 Milton street, Tailor.
 Washburn, Frank D., 18 Park street, Student.
 Watson, Frank L., 21 Aldersey street, Paints and oils.
 Watson, George B., 55 Sargent avenue, Foreman tinshop.
 Watters, James, 41 Mystic avenue, Music.
 Watts, George A., 18 Maple avenue, Mechanic.
 Webber, Edward O., 79 Partridge avenue, Rubber worker.
 Webber, Orrin H., 88 Jaques street, Carpenter.
 Welch, James T., 303 Highland avenue, Mason.
 Wemyss, George D., 29 Ames street, Furniture manufacturer.
 Wentworth, Frank H., 61 Dartmouth street, Salesman.
 Whitaker, Joseph W., rear 146 Sycamore street, Clerk, B. & M. R. R.
 White, Christopher J., 9 Concord avenue, Clerk.
 White, Clifford F., 41 Greenville street, Watchman.
 White, Frank H., 14 Montgomery avenue, Map mounter.
 White, Henry F., 18 Grant street, Plater.
 White, J. Harvey, 38 Browning road, Produce.
 White, Joseph A., 150 Hudson street, Carpenter.
 White, Maurice J., 52 Linwood street, Clerk.
 Whiton, George F., 20 Otis street, Leather.
 Wiggin, Walter S., 42 Walnut street, Clerk.
 Wilber, John F., 69 Franklin street, Compositor.
 Wilde, George, 104 Broadway, Clerk.
 Wilkins, Albert S., 22 South Church street, Carpenter.
 Willey, Clarence H., 26 Dartmouth street, Hay, etc.
 Williams, Frank G., 37 Albion street, Milk dealer and livery stable.
 Willoughby, George T., 111 Central street, Builder.
 Wilson, John R., 60 Albion street, Carpenter.
 Wilson, William B., 10 Lincoln avenue, Superintendent.
 Winslow, Isaac S., 38 Spring street, No occupation.
 Winterbottom, Charles J., 21 School street, Candy.
 Wood, Charles H., 7 Bigelow street, Clerk.
 Woodbury, Frederick A., 79 Marshall street, Boots and shoes.
 Woods, Thomas S., 69 Joy street, Carpenter.
 Wright, Frank E., 7 Bowdoin street, Machinist.
 Wright, Herbert E., 47 Pearl street, Milk cans.
 Wyatt, Charles B., 10 Linden avenue, Machinist.
 Wyman, Charles B., 67 Thurston street, Restaurant.

Y

Yeaton, George W., 49 Day street, Yard master.
 Yelland, Henry, 5 Munroe street, Bottler.
 Young, Willis A., 49 Cedar street, Carpenter.

CITY GOVERNMENT AND OFFICERS FOR 1899.

Mayor.

GEORGE O. PROCTOR,
44 Spring street.

Board of Aldermen.

WARD ONE.

F. DE WITT LAPHAM	3 Hathorn street.
ORICE M. GRACEY	23 Webster street.

WARD TWO.

FRENCH O. J. TARBOX	21½ Summer street.
WILLIAM H. ENNIS	16 Bowdoin street.

WARD THREE.

FREDERICK M. KILMER, President	420 Broadway.
FRANCIS M. WILSON	103 Cross street.

WARD FOUR.

SILAS L. CUMMINGS	251 Elm street.
ISAAC M. STORY	238 Summer street.

GEORGE I. VINCENT, Clerk.

Regular meetings, second, third, and fourth Wednesday evenings of each month.

Common Council.

WARD ONE.

ROBERT BURNS	21 Lincoln st.
WILLARD P. P. THOMSON	33 Pinckney st.
CHARLES H. RAMSDELL	53 Tufts street.
EDWARD E. SABEN	110 Pearl street.

WARD TWO.

ARTHUR P. VINAL	36 Walnut street.
WILLIAM F. BARKER	29-A Putnam street.
HENRY C. BRINE	23 Greene street.
JOSEPH S. PIKE, JR.	53 Preston street.

WARD THREE.

CHARLES A. GRIMMONS, President	72 Thurston st.
WILLIAM H. CUSHMAN	6 Evergreen avenue.
SAMUEL T. LITTLEFIELD	361 Broadway.
T. FRANKLIN PRESTON	19 Hudson street.

WARD FOUR.

JOHN F. FOSTER	25 Kingston street.
PAUL J. SMITH	79 Irving street.
JOSEPH P. BOYCE	78 Liberty avenue.
EDWIN F. CUSHING	72 Central street.

CHARLES S. ROBERTSON, Clerk.

Regular meetings, Thursday evenings next following the second, third, and fourth Wednesdays of each month.

Joint Standing Committees of the City Council.

ACCOUNTS. — Aldermen Gracey and Ennis; Councilmen Saben, Boyce, and Barker.

CITY ENGINEERING. — Aldermen Lapham and Kilmer; Councilmen Ramsdell, Preston, and Brine.

CLAIMS. — The Mayor, Alderman Ennis; the President of the Common Council, Councilmen Smith and Boyce.

ELECTRIC LINES. — Aldermen Wilson, Kilmer, and Cummings; Councilmen Vinal and Littlefield.

FINANCE. — The Mayor, Aldermen Kilmer and Story; the President of the Common Council, Councilmen Burns, Vinal, Cushman, and Smith.

FIRE DEPARTMENT. — Aldermen Kilmer and Gracey; Councilmen Vinal, Foster, and Thomson.

FUEL AND STREET LIGHTS. — Aldermen Wilson and Cummings; Councilmen Littlefield, Boyce, and Ramsdell.

HIGHWAYS. — Aldermen Lapham and Cummings; Councilmen Cushman, Pike, and Cushing.

LEGISLATIVE MATTERS. — The Mayor, Alderman Kilmer; the President of the Common Council, Councilmen Foster and Pike.

ORDINANCES. — Aldermen Gracey and Tarbox; Councilmen Saben, Pike, and Thomson.

PRINTING. — Aldermen Tarbox and Story; Councilmen Foster, Brine, and Preston.

PUBLIC GROUNDS. — Aldermen Story and Wilson; Councilmen Smith, Saben, and Brine.

PUBLIC PROPERTY. — Aldermen Cummings and Kilmer; Councilmen Burns, Preston, and Barker.

SOLDIERS' RELIEF. — Aldermen Cummings and Tarbox; Councilmen Cushing, Ramsdell, and Littlefield.

WATER. — Aldermen Ennis and Gracey; the President of the Common Council, Councilmen Littlefield and Barker.

Joint Special Committee.

GRADE CROSSINGS, ABOLISHING OF. — Aldermen Tarbox and Story; Councilmen Foster, Ramsdell, and Littlefield.

Standing Committees of the Board of Aldermen.

ELECTIONS AND RETURNS. — Aldermen Ennis, Gracey, and Tarbox.

ENROLLED ORDINANCES AND RESOLUTIONS. — Aldermen Story, Ennis, and Lapham.

LICENSES. — Aldermen Wilson, Lapham, and Cummings.

POLICE. — The Mayor, Aldermen Wilson and Lapham.

SEWERS. — Aldermen Kilmer, Gracey, and Story.

SPECIAL BUILDING PERMITS. — Aldermen Lapham and Kilmer.

STATE AID. — Aldermen Gracèy, Wilson, Story, and Tarbox.

Standing Committees of the Common Council.

ELECTIONS AND RETURNS. — Councilmen Thomson, Littlefield, and Brine.

ENROLLED ORDINANCES AND RESOLUTIONS. — Councilmen Burns, Cushman, and Boyce.

School Committee.

GEORGE O. PROCTOR, Mayor, Chairman, ex officio.

CHARLES A. GRIMMONS, President of the Common Council, ex officio.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1897), 28 Flint street.

SANFORD HANSCOM (elected 1896), 3 Webster street.

GEORGE S. POOLE (elected 1898), 46 Mt. Vernon st.

WARD TWO.

ALVAH B. DEARBORN (elected 1897), 34 Bow street.

JAMES F. BEARD (elected 1896), 17 Prospect Hill avenue.

FRED W. GILBERT (elected 1898), 101 School street.

WARD THREE.

QUINCY E. DICKERMAN (elected 1898), 85 Central street.

FRANK H. HARDISON (elected 1897), 192 Central street.

GEORGE W. W. WHITING (elected 1896), 280 Broadway.

WARD FOUR.

MARTIN W. CARR (elected 1896), 74 Craigie street.

GEORGE A. MILES (elected 1897), 249 Elm street.

HENRIETTA B. H. ATTWOOD (elected 1898), 18 Herbert street.

Superintendent and Secretary, GORDON A. SOUTHWORTH.

Office, City Hall Annex.

Hours: 8 A. M. to 12 M., and 1.30 to 5 P. M.; Saturdays, 8 to 10.30 A. M.

Regular meetings, last Monday evening of each month.

Assessors.

(Term, three years.)

BENJAMIN F. THOMPSON, Chairman (term expires 1902).

HARRY A. TRUE (term expires 1901).

NATHAN H. REED (term expires 1900).

Assistant Assessors.

(Term, one year.)

WARD ONE.

FRED B. CLAPP.

WARD TWO.

CHARLES C. FARRINGTON.

WARD THREE.

EDGAR T. MAYHEW.

WARD FOUR.

FRANK A. TEELE.

Clerk of Assessors.

ALBERT B. FALES.

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, three years.)

ALLEN F. CARPENTER, Chairman (term expires 1900).

WILLIAM F. HOLMES, M. D. (term expires 1901).

ALVANO T. NICKERSON (term expires 1902).

Clerk, WILLIAM P. MITCHELL.

Agent, CALEB A. PAGE.

Superintendent Collection of Ashes and Offal, GEORGE W. S. HUSE.

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

GEORGE O. PROCTOR, Mayor, Chairman, ex officio.

(Term, four years.)

EDWARD B. WEST, President (term expires 1903).

ALBERT W. EDMANDS (term expires 1901).

HERBERT E. MERRILL (term expires 1902).

JAMES H. BUTLER (term expires 1900).

Agent, CHARLES C. FOLSOM.

Secretary, CORA F. LEWIS.

Office open : 8 A. M. to 12 M., 1 to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Water Commissioners.

(Term, three years.)

GEORGE D. WEMYSS, President (term expires 1900),
5 Austin street.

GEORGE A. KIMBALL (term expires 1901),
33 Warren avenue.

WILLIAM FRANKLIN HALL (term expires 1902),
345 Broadway.

FRANK E. MERRILL, Superintendent and Clerk.

Office open : 8 A. M. to 4 P. M. ; Saturdays, 8 A. M. to 12 M.

Registrars of Voters.

(Term: City Clerk, one year; other members, three years.)

CROMWELL G. ROWELL, Chairman (term expires 1900).

CHARLES P. LINCOLN (term expires 1901).

CHARLES E. PARKS (term expires 1902).

GEORGE I. VINCENT, City Clerk.

Trustees of the Public Library.

(Term, three years.)

CHARLES S. LINCOLN, Chairman (term expires 1900).

CHARLES A. WEST (term expires 1901).

JOHN B. VIALI (term expires 1902).

EDWARD C. BOOTH (term expires 1901).

CHRISTOPHER E. RYMES (term expires 1900).

GEORGE W. PERKINS (term expires 1901).

CHARLES H. BROWN (term expires 1900).

J. FRANK WELLINGTON (term expires 1902).

CHARLES W. SAWYER (term expires 1902).

Librarian and Secretary, SAM WALTER FOSS.

Library open: 9 A. M. to 6 P. M.; Wednesdays and Saturdays, 9 A. M. to 9 P. M.

Reading room open Sundays from 3 to 7. P. M.

City Clerk.

GEORGE I. VINCENT.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

JOHN F. COLE.

Office open: 8 A. M. to 2 P. M.; Saturdays, 8 A. M. to 12 M.

Messenger to City Council.

JAIRUS MANN.

City Solicitor.

FRANK W. KAN,

50 State street, Boston.

City Auditor.

CHARLES S. ROBERTSON,

City Hall.

City Engineer.

ERNEST W. BAILEY.

Office open: 8 A. M. to 5 P. M.; Saturdays, 8 A. M. to 12 M.

Clerk of Committees.

WILLIAM P. MITCHELL.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Superintendent of Streets.

JOHN P. PRICHARD.

Office hour: 9 A. M.

Inspector of Buildings and Superintendent of Public Buildings.

FREDERICK C. FULLER.

Office hours: 8 to 10 A. M.

Inspector of Plumbing.

DUNCAN C. GREENE.

Office hour: 8 to 9 A. M.

Superintendent of Electric Lines and Lights.

EDWARD BACKUS.

Office hour: 8.30 to 9.30 A. M.

Chief of Police.

MELVILLE C. PARKHURST.

Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

JAMES R. HOPKINS.

Office, Central Fire Station, 261 Medford street.

City Physician.

ARTHUR R. PERRY, M. D.,

258 Elm street, 55 Bow street.

Inspector of Milk and Vinegar.

CHARLES S. PHILBRICK,

50 Morrison street.

Inspector of Animals and Provisions.

CHARLES M. BERRY,

14 Miller street.

Sealer of Weights and Measures.

JOHN H. DUSSEAUT,

42 Sargent avenue.

Fence Viewers.

LAMBERT M. MAYNARD,
90 Highland avenue.

CHARLES M. BERRY,
14 Miller street.

Burial Agents.

UNDER CHAPTER 279, ACTS OF 1896.

JAMES F. DAVLIN,
15 Kingman court.

JOHN H. DUSSEAUT,
42 Sargent avenue.

Constables.

JAIRUS MANN.
ROBERT R. PERRY.
CHARLES C. FOLSOM.
EDWARD MCGARR.
CHRISTOPHER C. CAVANAUGH.
EUGENE A. CARTER.
PATRICK J. GARVIN.
CHARLES H. COLGATE.

MELVILLE C. PARKHURST.
WILLIAM D. HAYDEN.
JOSEPH J. GILES.
DENNIS KELLEY.
CHARLES L. ELLIS.
CLARENCE TUCKER.
GEORGE H. CARLETON.
OWEN L. CASEY.

Measurer of Wood and Bark.

WILLIAM B. HOLMES,
317 Broadway.

Measurers of Grain.

JOHN CRAIG.

JAMES MCFADZEAN.

Public Weigher in Charge of City Scales, Union Square.

FULTON O'BRIEN.

Weighers of Coal.

CHARLES H. TUCKER.
ROBERT A. YERXA.
FRANK A. TEELE.
ALFRED A. WALDRON.
JOEL J. FISHER.
CHARLES H. WARD.
H. CARLETON ABBOTT.
EDGAR H. BARKER.
WILLIAM HOULAHAN.
OTTO POWLOWSKI.
BERT WALBRIDGE.
CLINTON E. SOMES.

SIDNEY E. HAYDEN.
IRWIN L. SMITH.
CHARLES P. BRANN.
AMHERST F. DURKEE.
CHARLES E. ROCKWELL.
C. EDWARD BYRNES.
JOHN A. MARSH.
GEORGE H. MOORE.
JOHN J. MASTERS.
GEORGE GROGAN.
ROBERT A. MURRAY.
CHARLES W. FURLONG.

Weighers of Beef.

D. WARNER DANFORTH.
 FREDERICK A. GEILING.
 CLARENCE EDWARDS.
 THOMAS K. MARTIN.
 AMHERST F. DURKEE.
 CHARLES E. ROCKWELL.
 CHARLES H. WARD.
 ALFRED A. WALDRON.
 WILLIAM HOULAHAN.
 OTTO POWLOWSKI.

CHARLES H. TUCKER.
 CLINTON E. SOMES.
 EDWARD M. WHEELER.
 THOMAS W. LANE.
 JOEL J. FISHER.
 C. EDWARD BYRNES.
 JOHN J. MASTERS.
 GEORGE GROGAN.
 ROBERT A. MURRAY.
 CHARLES W. FURLONG.

BERT WALBRIDGE.

Police Department.

MELVILLE C. PARKHURST, Chief.

ROBERT R. PERRY, Captain.

DENNIS KELLEY, Sergt.

EDWARD MCGARR, Sergt.

CHARLES E. WOODMAN, Sergt.

CHRIS. C. CAVANAUGH, Sergt.

(Promoted from patrolman Oct. 20.)

EUGENE A. CARTER, Sergt.

JOHN E. FULLER.

GEORGE A. BODGE (died Nov. 4).

ALBION L. STAPLES.

GEORGE H. CARLETON.

JUDSON W. OLIVER.

FRANCIS A. PERKINS.

GEORGE W. BEAN.

CHARLES S. THRASHER.

GEORGE L. SMITH.

WILLIAM H. JOHNSTON.

EDWARD M. CARTER.

JOHN G. KNIGHT.

ARTHUR E. KEATING.

THEODORE E. HERON.

EUGENE H. GAMMON.

JACOB W. SKINNER.

IRA S. CARLTON.

DAVID A. BOLTON.

CHARLES W. STEVENS.

JAMES M. HARMON.

ULYSSES G. SKINNER.

MICHAEL T. KENNEDY.

JAMES J. POLLARD.

EZRA A. DODGE.

SAMUEL BURNS.

DANIEL G. SIMONS.

JOTHAM CHISHOLM.

FRED H. GOOGINS.

ELMER E. DREW.

WILLIAM J. DAVIDSON.

EUGENE A. WOODSUM.

JOHN A. DADMUN.

PHINEAS W. SKINNER.

GEORGE L. RICE.

JOHN HAFFORD.

MELVILLE C. PARKHURST, Lockup Keeper.

Reserve Police.

HERBERT HILTON.

MYRON S. GOTT.

JOHN A. RAY.

CHARLES W. REICK.

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